

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
22299	52667	A	22427	9	1535	EAQQLVSRPAENRSWKLLA ARGEERGASIMAEQDVNDLL DYDEEEEPQAPQESTPAPAKKD IKGSYVSIHSSGFRDF/LCLKPE LLRAIGGLVAFEHPSEVQIH\CI PQGHPGAWDVLLPGQSPGMGK TAVFRCWPLQQL\EPVNGQVT VLVM\CHTRELAFQISKEYERFS KYMPSVKVSVFFGGLSIKKD\E EVMKKNCPHVVVGTPGRILAL VRNRSFSLKNVKHFVLD\EC DK MLEQLDMRRDVQE\FRLTPHEK QCMMF\SATLSKDIRPVC\RFEM QDPMEVFVDD\ETKLT\HGLQQ YYVKLKDSE\KTRKVFDLWD\V LEFNQVDILRQGQCKRCMAL\A QLL\VEQNFFAQWPI\HRGNGPQ KERPVNAYQASSKDFPSGRDPL VATQILFG\RGM\DIEAKSN\VFN Y\DMP*GLGTPYL\HRV\ARRGR FGTKRP*PFTFVSDG\NDA\KILN DV\QDRF*S*MWAE\PEEIDIST YIEQSR\LNHQLARAGPPGAAPH AASPPLSRRHC
22300	52668	A	22428	3	290	
22301	52669	A	22429	1	690	MNQTSEKEIISKEQGNVKAAGA SDVVL\YKIDVPANRYD\LLCLEG LVRGLQV\FKERNFFLTVLEVEK SKTKVEQIQCLCSQED\ADKLG VDISATKAVHISNPKTAE\FQVA RTTLLPGLLKTIAANRKMP\PL KLFEISDIVIKDSNTDVGAKNYR HLC\AVYYNKNPGFEI\IHLLDRI MQLLDVPPGEDKGGYV/IQSVG KLGVLHPDVITKFELTMPCSSL EINIGPFL

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22302	52670	A	22430	2	1834	GTRPTVSVKRDLLFQALGRYTY DEEFDELCFEGLLEDEITSKEE IISKEQGNVKAAGASDVVLYKI DVLATRYDLLCLEGLVRGLQV FKERIKAPVYKRVMPDGKIQKL IITEETAKIRPFAGAAVLRNIKFT KDRIYDSFIELQEKHLHQNICRKR ALVAIGTHDLDTLGGPFTYTAK RPSDIKFKPLNKTKEYTACELM NIYKTDNHLKHYLHIIENKPLYP VIYDSNGVVLSMPPIINGDHSRI TVNTRNFIECTGTDFTKAKIVL DIIVTMFSEYCNQFTVEAAEV VFPNGKSHTFPELAYRKEMVR ADLINKKVGIRETPENLAKLLT RMYLKSEVIGDGNQIEIIPPTR ADIIHACDIVEDAAIAYGYNNI IQMHSPENFTP*ANQPLNKULT ELLRHDMAAAGFH*STLPLAL CSQGRYWLKDLGVGYLWQQR AVHISMPKTAEFQVARTTLLPG PP*RP*AANRKVPLPLKLFEL DIVIKDSNTDVGAKKTTQSL VAGLLPTKNPGFEINSWGCDW RIMAVCSDVPPGGRQGGDM*F KASEGPAFFPGAMCRDSFARGQ SLGKGLVGLHPDVIHQIWS*PLP CSSLEINIGPFL
22303	52671	A	22431	1	304	
22304	52672	A	22432	1	642	
22305	52673	B	22433	1	423	
22306	52674	A	22434	1	525	LHEHPVTESPMNCVSVTLQSLY MKSVA/GIGQTGKIEPVVPLPL WFAESGAMEGETLHTFYQLV LMPKVMHYAQVLLALGCVL LLVPVICQIRSQ/DRCWPEGSPG *QPFAPPPA*TDIILWTEPATLM AEVSACCAPELPPPHRVPIIG AQAEVNEPGGPAFRALLDPGA
22307	52675	A	22435	3	483	VRSGNSHGEVSKGRMCLAGA LPLPGACAAVLLLVILPEPLRC PLHTLYGGRDPVDSIRLWROA GEFRHKSNTFNNDTVSFLEY RTFQFQPSKSHGESDYIVMPN ILVLNKRSTWISVCFVHGCI SRTGPRTESMHSKSLWKAWLA APGLPL

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22308	52676	A	22436	1	1623	RRRPRLLPGAEPCEPRVGPRRRA DMGCSAKARWAAGALGVAGL LCAVLGAVMIVMVPSLIKQV LKNVRIDPSSLFNMWKEIPIF YLSVYFFDVMPNSEILKGEKPQ VRERGPYVYK/ESSRHKSNTIFN NNDTVSFLEYRTFQFQPSKSHG SESDYIVMPNILLVGVAVMMME NKPMTLKLIMTLAFTTLGERA FHGTALWGEVMMWGYKDPLVN LINKYFPGMFPFGGGFVFAEL NNSDSGLFTVFTGVQNISRIHLV DKWNGLSKVDFWHSDDQCNMI NGTSGQMWPFFMTPESSLEFYS PEACRSMLKMYK/ESGVFEGIP TYRFVAPKTLFANGSIYPPNEGF CPCLESGIQNVSTCRFSAPLFLS HPHFLNADPVLAEAVTGLHPN QEAHSLFLDIHPVTIIPMNCSSVK LQLSLYMKSVAIGQGTGKIEPV VLPLLWFAESGAMEGETLHTF YTQLVLMVKPMHYAQYVPS WALGCVLLLVPI/LSCQIRSQE KCYLFWSSSKGSKDKEAIQA GSE*SLMTSAPKGSVLQEAEL
22309	52677	A	22437	198	1062	STCVMERNLLYSLLSSHLSPHF STSVTSKAVVAVNGVQLHYQ/HF GEGDHAVALLLPGMLGSGETDF GPQLKNLNKKLFTVVAWDP/R GYGHSRPPDRDFADFFERDAK DAVDLMKALKFKKVSLLGWS DGGITALIAAAKYPYIHKMVI WGANAAYVTDERPAG*YEGHP RMVSQMGVEGKKESL*EALYG YDYFARTCEKWVDGIR/QFKHL PDGNICRHLLP/RVQ/CPPLIV/H GAEKDPLVPRFHADFIHKHVKG SRLHLMPEGKHNLHLRFADFE NKLA\EDFLQ
22310	52678	A	22438	223	393	AQASPPLLPP*ERSNVPCPIS

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22311	52679	A	22439	524	1516	FILEDITGYVMAPIDGLLCREPR RGLYLEGTKPMTLFIQJFLNSV GDLLDLPLSPPTKNGSLKVFKR WDMGHCSALIKVLPGFENILFA HSSWYTYAAMLRIYKHWDNFII DKDTSSRLSFSSYPGFLESDD FYILSSGLILLQTTNSVFNKTL KQVIPETLLSWQVRVANMMA DSGKRWADIFSKYNSGTYYNNQ YMLVGPESKAEPQSLTKGT/P VTLWEQIPTV/VRNISGTNLMFL RGKGFWA/SYNVPPFEKIIYNWS GLSHC*FRKGLGPTPYDFRPH EPKIFRRDPR/DK*LIRHPMKYI MRYNNYKE/DPYSRGDPPVNT
22312	52680	A	22440	1	306	
22313	52681	A	22441	698	1613	FQFFQIFPEYKKNDFYVTGESY AGKYVPAIAHLIHSNLPVREVKI NLNGIAIGDGYSDPESIIIGYAE FLYQIGLLDEKQKKVYFQKQCH ECIEHIRKQNWFEAFEILDKLLA DGDLTSDPFLTSQNVGTGCS/NY YNFLRCTEPEDQLYYVKFLSLP EVRPAHPTLGN/QTFNDGPIV* KVPCGEDTSTSPVKPW/LTEIM NNYRVLIYNGIQLGHPSVAAAP DQSAPLMGMDWKGSP/EYKK AEKK/VWKIFKSDSEVA/GYIR QVGDFHQVIRGGGHILPYDQP LRAFDMINRFIYKGKWDPPYVG
22314	52682	A	22442	1	258	
22315	52683	A	22443	366	848	
22316	52684	A	22444	1	585	ECLCVSTAVRIRHEKTMTEL LRGGSFEFKDMRVPSALVTLH MLLCSIPLSGRDSDQKIQNDI IDILLTFTQGVNEKLTISEETLA NNTWSLMLKEVLSSILKVPEGF FSGILISELLPLPMQTTQVS LPYNMHLINDCSNTF*KASDSV KKQKPSFPKPRHKITG*GGD KTETSWSLRKYGGKNFK

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22317	52685	A	22445	625	2700	YIRGHSTPRKLWSMHLHVQAK LLQEIVRSFSGTTCCQPIQHMLRR ICVQLCDLASPTALLIMRTVLD LIVEDLQSTSEDKEKQYTSQTT RLALLDALASHKACKLAILHL INGTIKODERYAEIFQDLLALVR SPGDSVIRQQCVEYVTSILQSLC DQDIALILPSSSEGSISELEQLSN SLPNKELMTSICDCLLATLANS ESSYNCLLTCVRTMMFLAEHD YGLFHLKSSLRKNSSALHKLK RVVSTFSKDTGELASSFLEFMR QILNSDTIGCCGDDNGALMGSR RGAHTSRTMSINAAELNQLLQS TEESPEDLFLELEKLDLEHSDK DDNLYSLD**RGLKQMLESSG DPLPLSDQDVEPVLSAPESLQN LFNNRTAYVLADVMDDQLKS MWFTPFQAEIGITDLDLVKVD LIELSEKCCSDFDLHSELERSFL SEPSSPGRTKTTKGFKLGKHHK ETFITSSGKSEYIEPAKKEFMLC PPPRGRGRGGFGQGIRPHDIFR QRKQNTSRPPSMHVDVFVAA EISKEVVPQDGI/PSHPNRPKVS QRISSRVGFSGNRGGRGAFHSQ NRFFTPPASKGNYSRREGTRGS SWSAQNTPRGNYNESRGGQSN FNRGPLQLRPLKFPTG*PAK SLGTRAS*MVRGG/UGTFPGLS AKLAASGGSRGKFVSGGSGRG
22318	52686	A	22446	2487	3161	TWWLHISIIIPGGKKSYSPRLGR GKRFAFVLLVGGELCLTYSAP PSIHPILRSEAECLNYSIFSFLA PAGEFALPRSFDCPRVRLRAL RLALLILITFILCWTPYYLLGM WYWFSPHMLTEVPPSLSHILFL LGLLNAPLDPSPSYGFTLGCR RGHQELSIDSSKEGSGRMLQEEI HAFRQLEVQKTVTSRRAGETK GISITSI*S*QSM*EQNSKSLVP
22319	52687	A	22447	232	337	
22320	52688	A	22448	1	1449	
22321	52689	A	22449	1	2004	

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22322	52690	A	22450	3	1558	APARDRAGGGRRALPRLPAAS ARARGLTRALSAMACRQEPQ PQGPAAAGAVASYDYL VIGGG SGGLASARRAAELGARA AVVE SHKLGGTCTVNVGCVPKVMW NTAVHSEFMHDHADYGFPSCE GKFNWRVKEKRDA YVSR LNA IYQNNLTSHIIRGHAFITSD PKPTIEVSGKKYTA PHIL IATGG/ MVPSTPH*EPRSRGASL*ITSDG FFQLEIIVPAAASLVGARLP.LSV EMAGIL/SALGSKTSLMIRHDVK VLRSFDSMISTNCTEELNAGV EVLKFSQVKEVKAL/SGLEAS MVTAVPGRLPVMPMPD VCL LWAJGGVPNTKDL SLNKLGIQT DDKGHII VDEFQNTNVKGIYAV GDVCGKALLTPV AIAAGRKLA HRLFEYKEDSKLDYNNIPTVVF SHPPIGTVGLTEDEAIHKYGIEN VKTYSTSFPMYHAVTKRRTK CVMK MVCANKEEKVVGHHMQ GLGCDEMLQGFAVA VKMGAT KADFNTVAIHPTSS EELVTLR
22323	52691	A	22451	51	464	
22324	52692	B	22452	103	1184	
22325	52693	A	22453	52	148	
22326	52694	A	22454	1	3282	
22327	52695	A	22455	145	436	
22328	52696	A	22456	1	3622	MPGYRAGPFEEAFDREDERQIE CQGRGVDRKITGEHTTFSGRSG PDHETLDSGKGCTSRMVPASA ASEDRRKLPII VEDEGGPTSRSA CSSPARGSRPPPSAIGCSPVAQA SDSAAGPARRTALQSLSSWLG Y QIDRHSVPVYVFKSPLFSVIMAP KHKSSDAGNLD RPKRSRKVLPL SEKVKVLDLIRKDKKSYAEVA KIYKNESSIREIVKKEKEIRASF AVSPPTAKVTATVRDKCLVKM EQALHLWVEE
22329	52697	A	22457	3	422	VVELRCQDKEGNPAPEYTWFK DGIRLLENPRLGSQSTNSSYTM NTKTGTLQFNTVSKLDTGEYSC EARNVGY/PQVPGKRMQVDD LNISGIIAAVCGLGVCYAQRKG YFSKETSFKQSNSSSKATTMSE NDFKHTKSFI
22330	52698	A	22458	1	208	
22331	52699	A	22459	122	321	

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22332	52700	A	22460	2	1169	HTPKTEQTPIPLGEDPPLGSQLR RRPGEGETDIPSRVPLPPLPT LCSFPAPVQGPASPAPAAAGT LDLLRAAGCRPGKMARRSRHR LLLLLLRLYLVAALGYHKAYGF SAPKDQVVTAVEYQEAILAC KTPKKTSSRLLEWKKLGRSVSF VYYQQTLLQGDFKNRAEMIDFNI RIKNVTRSDAGKYRCEVSAPSE QGQKPGVEDTIVTEVLGDVHVL APAVPSCVPSALSGLTVVELR CQDKEGNPAPEYTWFKDGIRLL ENPRLGSQSTNSSYTMNTKTGT LQFNTVSKLDTGEYSCEAIRNS VG*SEGPCETNASR*SQHKVGII GSRSL*WALVDFPFVGLVYSYG SEKATFSKETSFKSNSSSKAT TMSENDFKHTKSFIH
22333	52701	B	22461	57	168	
22334	52702	A	22462	1	682	
22335	52703	A	22463	398	1465	GTFPPSGLITGKKRKALLGACD CTQIVKPSGVHLKLVLRFSDFG KAMFKPMRQQRDEETPVDFFY FIDFQRHNAEIAAFHLDRILDFR RVPPTVGRIVNVTKEILEVTKN EILQSVFFVSPASNVCFACKPY MCKTEYAVCGKPHLEGLSLA FLPSNLNAPRLSVPNPWIRSYTL AGKEEWEVNPVLYCDTVKQIYP YNNSQLRLNVIDMAIFDLIGN MDRHHYEMFTKFGDDGFLIHL DNAIRGFGGRHSHDEIPILSLLSQ CGMIKKNTLLHLQLLAQADYR LSIDVMRESLLEDQLSPVLTEP HLLALDRRLQTLRTVIEGCIV AHG/QQSVH*FDGPSGNSGPR
22336	52704	A	22464	2	424	GRVGSAVIVRAWITHKYSGR DWNVKWEENLLHAYAKNYTL LQTIPPFERPFKDQHVCLLEWNN GYIWNLRANRPQCPLEN/DFRE DFHYNDTAGYFIIGSSRYVAGI EGFFGPKYYRLRSLHPAQIFNP LLEKQLAEQIS
22337	52705	A	22465	23	323	
22338	52706	A	22466	3	287	LSVQMYAQAALDGDSDQGFNL ALLIEEGTYERCWWSHNEESFS PCSLAWLYLHLRLWGAHLHSA LIYFLGTFLLSILIAWTVQYFQS VSGKDL
22339	52707	A	22467	1	348	
22340	52708	A	22468	1	738	

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22341	52709	A	22469	1	507	
22342	52710	A	22470	187	3682	SILCLLSPCVVQFGKPVVSILSS RSRHSPCTKKGWEGMRKHLHT RQGHK*VHVKFPISIMGLQGM DYFHPDISIFCNLAIVIRAWITH KYRGRDWNVKEENLLHAVA KINYTLQTIPPFERPFKDHQVC LEWNMGYIWNLRANRIPQCPL ENDVVALLGFPYASSGENTGIV KKFPRFRNRELEATRQRMDYP VFTVSLWLYLLHYCKANLCGIL YFVDSNEMYGTIPSVFLTEEGYL HIQMHVLKGEDLA
22343	52711	A	22471	3	153	
22344	52712	A	22472	1	408	TEPEFPGRRFRPRMAVMAPIRT LVLLLSGALALTQTWAGSHSM RYFSTSVSRPGRGEPFIAVGYV DDTQFVRFDSDAASQRMEPRA PWIEQEGPEYDEETGKVKAH SQTDRENLRALRYYNQSEAGS HTLFPR
22345	52713	A	22473	1	823	MAVVAPRTLLLLSGALALTQT WAGSHSMRYFSTSVSRPGSGEP RFSVAGYVDDTQFVRFDSDAA SQRMEPRAPWMEQEEPEYWDR QTEISKTNQAIDLESRLRLRY NQSED/GPPPKTHMTHHPISDHE ATLRCWALSFP AEITLTWQRD GEDQTQDTEL VETRPAGDGT QKVASVVVPSGQEQR YTCHVQ HEGLPKPLTLR WEPSSQPTPIV GILAGLVLF GAVIAGAVVA MWRKSSDRKGGSYSAASSD SAQGS DVS LTACKV

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22346	52714	A	22474	1	1162	NSRVDDFVAVMAPRTLALLLS GALALTQTWAGSHSMRDFFTS VSRPGR*EPRFIAGVYDDTQF VRFADSDAASQRMPEPRAPWIEQ EGPEYWDQETRNMKA\HSQTD RENRLIALPLTYNQSEAGSIHTL QMMFGCERGGSDGALSFRGLP PVTAY\DGKGFTFALNE\DLRS WTAADMAAQITQRKWETPPM WRS/EQEEAYLEG/QCV\DG LRR YL\ENGKEDAA\AQRTPPKTHMT HHPI\S**RPL*RCW\A\AFYPC GDHT*PWQRD\G\EDQTQ\DTL V\ETRPAGDGT\AHKWAAVVVP SGEESEITPANVQQ*\RVLPKPLT LKM/WEPSSPAHPSPIVGHLLA LVL/LLGAFDHLKLWAAVML KEGTAQVGK*KIEKGGSYSSR LPSQ
22347	52715	A	22475	9	316	IPAMGLETEKADVQLFMDDDS YSHHSGLEYADPEKFADSDQD RDPHRLNSHLKILMPFVKTL MVLPSVQTIWKSVDVIIAPLCT SVGRCFSSVSLQLSQD
22348	52716	A	22476	3	606	RPRTKAAMGLETEKADVQLFM DDDSYSHHSGLEYADPEKFADS DQDRDPHRLNSHLKLGFE\DI AEPVTTHSFDKVW\ICSHALFEI \SKYRM\YRSLTVFLGHSPWAFI CGEFSFATL\SCLAHLGF*WPFV \KTCLM/VFLPSVQTIWEEC*QM V/ISLAPLCYTSVG\RCFLFLFSLA TEPRNGILGPQVWRLGYCNTSF VIIT
22349	52717	A	22477	101	432	ATRDQLKAKPENLLGISRDSG RTQEGIPARVPYPPPP/PTREPPQ ST*PGRNGLLGCLGGGAPRPG WLDSEAGGAPAFHCPCG*CPRRH RRGGTRLKQLPPPPPTTVHDQPL
22350	52718	A	22478	794	1209	VKVDDEVTVKHLGCRCQWSRC PPSCSGTCCLCCGAEAPCAQAQA WPPPPAA\PPPTPPAPP\SDNSCT Q*PTPRCGT*DKDKGIFTLPKGGH P*V*\SLEHGFLKLGC\PPPPPHA LVRPPQVRFNTPHGAEPQRDQL PQST

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22351	52719	A	22479	3	1041	GSNCPLRQADPGPPRHTLFMDF VAGAIGGVCGVAVGYPLDTVK VRIQTEPKYTGWHCVRDITYHR ERVWGFYRGLSLPVCTVSLVSS VSFGTYRHCLAHICRLRYGNPD AKPTKADITLLGCGLRTRPRVP DVAH*GGQSPADADTGFLSSS GGFRLSALLAAPPMPVPPACP EPKYRGPLHCLATVAQEEGLC GLYKGSALVLRDGHFSFATYFL SYAVLCEWLSAPAGHFRPDVPG VLVAGGCAGVLAWAVATPMID GIKSRLAANGQQNGYRGLLIH CMVTSVREEGPRVLFKGLVLN CCRAFPVNMVVFVAYEAVLRL RPGSAHHSRSPTRGATHQQLV
22352	52720	A	22480	38	453	
22353	52721	A	22481	287	413	DMDYRRGGWTVIHRKIGGRID FORVR*DYLGHYADLLREFWL
22354	52722	A	22482	1	393	MPKLLKWNVEGGACWGNLW KLPNVERLCFSEATVFRSAAQC LVVGLGLLLVSRACSHEDIAEW RGDSSVNVNVEDGSNAKDESKS NDTVCKEDCEESCDVKTKITRE EKHFMCIFHNQSLGTVCGEK GIDVN*NYTRRKTFHVYLPQCS VTGNSLRGERH
22355	52723	A	22483	505	854	
22356	52724	A	22484	584	1009	FTQKDLFIPFEVMDMDYRGG GWTVIQKRIDGIIDFORLWCDY LDGFGDLLGDAFLFI.*KEDNQ NAMPFSTSDVDNDGCRPACLV NGQSVKSCSHLHNKTGWWFN KCGLANLNGIHHFSGKLLATGI QWGTGNQKQLTWQE
22357	52725	A	22485	1	3123	MSHRARPCAPFLFWMLGVKT EPAGQDRRKARSRCIFRVHA SGLWGLRFPSVEWGKPSRDKA QLSESPPQSVYLFAETALSAIVP GDGVAGGGGTGDGGPGAPYPG AVADMEEELTIWEQHTATLSKD PRRGFGIAISGRDRPGGSMVV SDVVPGGPAEGRQLTGDHIVM VNGVSMENATSAFAIQILKTCT KMANITVKRPRRIHLPATKASP SSPGRQDSDEDDGQPRVEEVD QGRGYDGDSSSGSGRSWD
22358	52726	A	22486	191	267	

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22359	52727	A	22487	2	609	PPRRSDEDPAKMAEVEHEEGSG PFRKFTLPAAVDL\DQ\RLDISY DQLEQPMQAVPVARPAAGGLN PGACGRKQ\HSPA*KRLQGPGS KGGAAPCHKPEAGEDATLRD\ MIILPEMWGS\WGVVYHGKTF \NQVEDQGVCGRPCRLGWAGV A*CRRDQLTPSFLGALPQPEMI GHVLEGFSTYKPVKHGRPGIG ATHSSRFIPLK
22360	52728	A	22488	3	461	STISLYCGLKTCPKLTCAFPVS PDSCCRVCRGDGLSWEHSDG DFFRQPATREASHCHRSYD PPSRQAGGLSRFPGARSHRGAL MDSQQA\SGTIVRFVNLNNKHH GQVCVSNGR\TYSHGESWHPNL RAFGIVECVLCTPTID\WPQGD *GKCRHGCPTLHYVD*LPLEKQ VILATALTMILHQADRLVCPA FLGPEVTGELLWIPSKHQEPLC DLSSITNTSMDKCVFPMEGPIL MASPGTQTSGLLALW\SVCYVL PPPSIVPQGD
22361	52729	A	22489	656	1495	TGDGELSWEHSDGDIFRQPANR EARHSYHRSYDPPPSRQAGGL SRFPGARSHRGALMDSQQA\SG TIVQIVNNKHHKGQVCVSNKG TYSHGESWHPNLRAFGIVECVL CTCNVTKQECKKIHC\PNRYPC YPQKIDGKC*QNSTCFIPEELP GQSFNDKGVYFCGEETMPVYES VFMEDGETTRKIALETERPPQVI CSTFCLA/QGILQHFHIEKISK MFEELPHGHFAFVCLLGQWKIF TEGEAQISQMCSSRVCRTELED LVKVL\YLERSEKGHC
22362	52730	A	22490	1	477	
22363	52731	A	22491	1	294	
22364	52732	A	22492	56	4042	VFFTSMEHLQKLIPASPACLA* IPQACQP*PPTPAWQCRNLRL AASRHQEP\RGVGGPLGHGAE RILAVPVRTDAQRLVSHVVSA ATSRAGVRRRAAPV\RTSPFPG GNEEEPGSHLFYNVTVFG\DLH LRLRPNARLVAPGATMEWQGE KGTT\RV\PLLSCLVYGDVAG LAEASSVALSNC\DLGALIRME EEEFIEPLEKGLAAQEAQGR VHVYRRPPTSPPLGGPQALDT GASLDSL\SLRAL

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22365	52733	A	22493	173	1148	QALGLPSLLAVLALSTTDRASF SAVISRSPQRTVSSTRKEQRP.LV FAPSALRLGTNACKMDGFCSTF LGAPGIRLKLTPAGTHKSERD RTATPTRHHEKRLFCSSLSIGRQ AEEAWRADHPLPESRLFGLVPL GGAAWCRLAGSFCVCSLRLPRP IELVRAASGALLGAVRRRNHGP PHCFSTATLLCKAYRGGHLLTIR LALGGAPNRPFFYRIVAAQNK PRDGPFP*SKLGPPYPD/LLPPNS HGEKTPCPLN/LDRIRHWIG/CG APPLSPMEKLLGLAGFFP/LHP MMITNAERLRRKRAREVLLAS QKTDAEATDEATET
22366	52734	A	22494	2	4985	AGATTALELPGQPSVTGVPPELP GLPSATRALELSGQPVATGALE LPGPLMAAGALEFSGQSGAAG ALELLGQPLATGVLELPGQPGA PELPGQPVATVALEISVQSVVT TSELSTMTVSQSLEVPSTTALES YN/DERSMMSSYERSMMSYER SMMSPMAERSMMSAYERSMM SAYERSMMSMPAERSMMSAYE RSMMSAYERSMMSPMADRSM MSGADRSMSSYSAADRSM MSSYSAADRSMSSYTADRSM
22367	52735	A	22495	18	174	ALIKKHFI*IAAAKPTPPKSQV TLTKFFPVSSGSHRKKHEADSV YGEWVL
22368	52736	A	22496	3	595	IKKHFI*IAAAKPTPPKSQVTLT KEFPVS/GPQHRKKEADSVYG EWVPVEKNGEENKDDDNVFS NLPSEVSRNRNIMYFSFIPESAH FIVMLCLIWDSVSLFLRAGVKR QGRV*DGQM/KQPAASHLTVT RM/CNSLCG/TKATKWKLRF ENSIVITSLPNIGPSLHLWEGSP WYSIPFSFPLLLKVGVEFEKFR

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22369	52737	A	22497	3	5618	SSELPGPSVTPVPQLSQELPGLP APSMGLEPPQEVPEPPVMAQEL PGLPLVTA AVELPEQPAVTVA MELTEQPVTTTELEQPVGMTTV EHPGHPVEVTTATGLLGQPEATM VLELPGQPVA TTALELPGQPSV TGVPELPGLP SATRALELSGQP VATGALELPGPLMAAGALEFS GQSGAAGALELLGQPLATGVL ELPGQPGAPELPGQPVA TVALE ISVQSVVTTSELSTMTVVSQSLEV PSTTALESYNTVAQ
22370	52738	A	22498	1	4685	MAPESHILASNTMETHILASNT MDSQMLASNTMDSQMLASNT MDSQMLASSTMDSQMLATSSM DSQMLASNTMDSQMLASNTM DSQMLASSTMDSQMLATSSMD SQMLATSSMDSQMLATSTMDS QMLATSSMDSQMLATSSMDSQ MLATSSMDSQMLATSSMDSQM LATSTMDSQMLATSTMDSQML ATSSMDSQMLASGMTMDSQMLA SGTMDAQMLASGMTMDAQMLA SSTQDSAMLGSKSPDPYRLAQD PYRL
22371	52739	A	22499	291	7655	KRAPEKVDAYLYKQILLMKLP TKKSKKKKKKKKKKKKKKE KEKKYKRQPEESESKTSHDD GNIDLESDFLKFSEPSVALE LPTRAFGPSETNESPAVVLEPPV VSMEVSEPHILETLKPATKTAE LSVVSTSVISEQSEQSVAVMPEP SMTKILDSFAAAPVPTTLVLK SSEPVVTMSVEYQMKSVLKS ESTSPEPSKIMLVEPPVAKVLEP SETLVVSSETPTVEVPEPSTSTT MDFPESSAIEALR

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22372	52740	A	22500	90	2166	SQHFGRLRRVDYLRTSKMQTSS SRSVHLSEWQKNYFAITSIGCT GPKADAYRAQILRIQYAWANS EISQVCATKLFKKYAEKYSALID SDNVESGLNNYAENILTLGASQ QTDSDKWQSGLSINNVFKMSS VQKMMQAGKFKFDSLLEPALA SVVIHKEATVFDLPKFSVCGSS QESDSLPSAHDRDRTDQFPES NRLKLLQNAQPPMVTNTARTC PTFSAPVGESATAKFHVTPLFG NVKKENHSSAKENIGLVNLSN QSCFPAACENPQRKSFYGGSTI DALSNPILNKACSKTEDNGPKE DSSLPTFKTAKEQLWVDQKKK YHQFQRASGSSYGGVKKSLGA SRSRGILGKFVPIPKQDGGEQN GGMQCKPYGAGPTEPAHPVDE RLKNLEPKMIELIMNEIMDHGP PVNWEDIAGVEFAKATIKEIVV WPMLRPDIFTGLRGPPKGILLFG PPGTGKTLIGKCIASQSGATFFSI SASSLTSKWVGEKEMVRALF AVARCQQAVIDEIDSLLSQR GDGEHESSRIKTEFLVQLDGA TTSSDDRILVVGATNRPQEIDEA ARRRLVKRLYIPLPEASARKQI VINLMSKEQCCLSEEEIEQIVQQ SDAFSGADMTQLCREASLGPI AV/SQTADIAITIPDQVRPIAYID FENAFITVRPIVSPKDL*LYENW
22373	52741	A	22501	3	523	FFFFPAFKMSKRGRGWVSPG CRKFPDFPLGLPVGTL*SNWCL TNTGAQKTLTYISREGGIKGTG LTRLPRLPVGIDMVMASHSRK ANPELQKKGYIPA\VVIRQRKVI TVGKRWRCCFFIFED\NAGVIGD\ NKG\EMKGFAITG\PRAKECAD LWPRDCIQMLGSIWFSQYIL

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22374	52742	A	22502	3	946	GPSASVSFWLWSQQHSPRIHP RPGERRRLHGIPHTAEKQPA PLRPERRGRRRRPAGRRGCA* /GGARPCSSSS*PASTPAPRAA PPCRSPCSARPTGPRTGAGRPR AP/HDGPPCATPDPRDQAS/PLPP RGPRPRVAPGSP/PEGHPRELPS EGSPGPRAPGQRHVPRPRAVL R PRGLRGGGCPGAHPAPRLQRR RAPGAAAAPGPRWPGRPGRR AQALVPAARSRCFWKLWEAVF CLPVAAAPTRRFGARQRPQLW LHGHKGQGVGEVSSHSAEEH LVPAAAPKRAREPHRGSGSPGG IASSWQDGS
22375	52743	A	22503	34	823	
22376	52744	A	22504	424	2339	LLRGTLSQSAWTSVIPDIATELR DAPEKTLACMGLAIHQVTICLM HTFV*ITFLMFAHTCTPCLTMVN VPHIHAR*GI*CIKVLLRMGH*R PFKNENAHRTGVVVRVSNIKPLC TKMAFLCAAAGEIQSFPLPDGK YSLPTKVIRSLTASLILVKKAN QNTENISRQSIK*AIRLLHKRQA LDVTLLRKSIILLHDLDVDSVPG DTVTITGIVKVSNAEEGRVQLF SLFVSQ**FINVHLF*DAPPHILV VGDPGLGKSQMLQVDNQSFVS CSFACKMR**FTSEFSLKDS SGDFALEAGALVLDGQGERPK GIISDSGTF*KAFSFSVNFLSISL AKAGVVCSLPARTSIIAAANPV GGHYNAKATYSENLK*VSSNIY TFNVLNHFNSIRKRNSSHLSEH VIAIRAGKQRTISSATVARMNS QDSNTSVLEVSEKPLSERLKV *MFLLLIQFGSV*MSKFSVWLI DVYPRLSTEAARVLQDFYLELR KQSQRNLNSSIPTRQLESILRLTE VCFFLWSCFFWLKGEGCALTSL LKYR*DKNFKLF*MKYQLSSHL KLGNRPNRSTAKRFISALNNVA ERTYNNIFQFHQLRQIAKELNIQ VADFENFIGSLND/QGYLLKKG PKVYQLQTM
22377	52745	A	22505	73	214	
22378	52746	A	22506	1	503	

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22379	52747	A	22507	3	1000	ESKLEGKAAQDIKDEEPDGLGR PKPECEGYDPNALYCICRQPHN NRFMICCDRCEEFHGDVCGIS EARGRLRLRNGEDYICPNCTIL QVQDETHSETADQQA*WRPG DADGTDCTSIGTIEQSSSEDQGI KGRIEKAANPSGKKLKFQPG PGPVPTQLPVLWQVLEIAVSRSI SAFTLLHCISCKVIEAPGASKCI GPGICCHVAQPDVSYCSNDICIL KHAAATMKFLSSGKEQKPKPK EKMMPKPEKPSLPKCGAQAGI KISSVHKRPAPEKKETTVKKAV VVPARSEALGKEAACESSTPIS WASIDHNYNAIVKPEKTAAPSP VTVV
22380	52748	A	22508	1	2330	MAAAEGERAGGRASGRGRSE PPRPGARASDAGPGLREVEGT GEHSVVAAGTVPRVGVGAAAR GEERRAGLGECGPGLGCGVAG LISGKSVQAFSVGAGRWP LLRV FGGNVTFCVSVWSLCA YTLPL GMDDKGDPNSNEEAAPKAIKPTSK EFRKTWGFRRRTIAKREGAGD AEADPLEPPPPQQQLGLSLRRS GRQPKRTERVEQFLTIAARRGR RSMPSVLEDSGEPTSCPATDAE TASEGSVESASETRSGPQSASTA VKERPASSEKVKGGDDHDDTS DSDSDGLTLKELQNLRLRRREQ EPTERPLKGIQSLRLKRRREEGP AETVGSEASDTEGVLP SKQEP ENDQGVVVSQAGKDDRESKLEG KAAQDIKDEEPGD LGRPKPEC EGYDPNALYCICRQPHNNRFMI CCDRCEEFHGDVCGISEARG RLRLRNGEDYICPNCTILQVQD ETHSETADQQA*MGDLGDAID GTDFTSIGNIRSRSLRRPKGLK GRIEKAANPSGKKELKFQPVLE EIAVSRISAFSTLLHCISCKVIEA PGASKCIGPGCHVAQPDVSYCS SNDICILKHAAATMKFLSSGKEQ KPKPKEMKMPKPSLPKCG AQPQVWLLLLSSWQLGTSSGL QVTLQPPFTEHKWLKFSVLHG ETAGPPRAHRIRKLNKYWGAC HHCMPRLRPLCLPGWPRSSPSL

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22381	52749	A	22509	149	2001	IQPPDPRNMTLAAAYKEKMKELP LVSLFCSCFLADPLNKSSYKYE\
						AGVGDSVGGRMKASGKTVLT
						GRERRAQADTVDLNWCVID
						MEVIELNKCTSGQSFEVILKPPS
						FDGVPEFNASLPRRRDPSLEEIQ
						KKLEAAEERRRKGPDV\YEIH
						SPASLPFHSSDASVLGDIPPTTY
						SNISNSNQELLMGGSPAPEQP
						HYEANILERSETTSYDNGSDAA
						QSFKVDGRCVFYINIPISNEGK
						VLWKAPEIATAKEPTWSPLGST
						GPRPCQILVVKSPVHVGKGPVL
						SGCGLDLLQPTFALCFVLVAGA
						VTITFLSCSGEAREESAPKAMS
						ERQARRGGAEEKQGAEGRLQA
						VTTPELPYRMGLGA AFLKERS
						GVLPGSFICEDFTAALKQDEEIG
						TMKGKIREAYFKSFVPTPAFS
						GGVMLPTGGTLEMCNNGGGH
						KEQAGTVLPFAIALRVTPSAS
						LVLRLPLNDQAMLQGSGLQL
						ADGLFWDLASIMDWATASIQPS
						VSSSMKICQAFGRPLAILLAQC
						AYVYGTWMKLEAILTTLTQE
						QKTKHHLFSLPCCMPADISYRQ
						RCLGEPHCTVWNRHLESVM
						MSNSTTSPCELLIFEVPPVAPE
22382	52750	A	22510	373	990	IQPPDPRNMTLAAAYKEKMKELP
						LVSLFCSCFLADPLNKSSYKYE
						ADTVDLNWCVIFRHWKVIE\LN
						KCT/SGANSFEVILKPPSFDGVP
						EFNASLPRRARPIPWEIIPVRKL
						GRRLRERREVTREADP*KQLAE
						KRIEHEERGDSKRAFRETTFIK
						MAK/EKNLAQKMESNRENREA
						HLAAMLRLQEK/DKHAEEVR
						KNKELKEEASR
22383	52751	A	22511	524	1107	LCSPKVLGLNASCQKNFLKQK
						KSIKTLSTSQ/YVSGYSLARSE
						NAHPEFRMAMKDGELVIWDSV
						HPCYTVFHEQTETFSWLSEYH
						DDFRQFLHIYSQDVACYGENLA
						YFPKGFENMFFVSANPWVSFT
						SFDLNVANMDNFFAPVFTMGK
						YYTQGDVKVLMPLAIQVHHAVC
						DGFHVGRMLNELQQYQDEWQ
22384	52752	A	22512	1	1413	
22385	52753	B	22513	1	2787	
22386	52754	A	22514	1	1638	

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22387	52755	A	22515	71	2421	YTVCYFLQAAEEDETQNQHDD SSSDSGTPSGPDFNYILNMSLW SLTKEKVEELIKQRDAKGREIV NDLKRK\SPSDLWKEDLAGIC WRDWDKV\ENSPRNEEDVLAG MSGKSNLKGKVGKPKVKKLQ LEETMPSPYGRRIIPEITAMKAD ASKKLLKKK/KGVLDLTA\VK\I VEFDEEFSGAP\VEGAGEEGIDS HQFPINK\GPKP\RRKEKKEPGSR VRKTP\SSGKPSAKKVKKRNP WSDDESSESLEETEPPVIPR DSLRLRAADIHRLGGEGFDAGL TVFAPLFA\SPFPGRAPYLKAA CQTPRSIGIGATAISGEALKGAV SSGVDPRWASHLRVKLLEKSFS LQEIQSTKVLSQQA\TSLSLG EPKLSKQLTGTCIYRKTNLALC RGPAAAKSLFQGA\VRNDRNKK KKETSKOECTESYEMTAELDDL TEKIRKAHQETFP\SLCQLGKYT TSLQKGMQRQILDLSSVRPIV DVRPPELQDSKLVLVQAACKA PLADHCSKPVLLEKGPEDQKD QHDVGDGCWNPECQTLFDQNN AAKKEESETANKNDSSKKLSVE RVYHIKTQLEHILLRPDTYIGSV EPLSKVAEEGPA\VGWKGWF GTESRKDPKPTGT\EEVERGVW LSGREGRLLSPSVTTMVLAEN SAIRFVGKPSDTPVKPKRAP KQKKVVEAVNSDSDSEFGIPKK
22388	52756	A	22516	1424	4860	GRDRYGVFPLRGKILNVREASH KQIMENAEINNIKIVGLQYKKS YDDAESLKTLYGKIMIMTDQ DQDGS\HIKGLLNF\IH\NWPSLL KHGFLEEFITPIVKASKNKQELS FYSIPEFDEWKHIENQKAWKI KYYKGLG\YSTAKEAKEYFA\ID MERHRILFRYAGPEDDAAITLA FSK\KIDDRKEWLTNFMEDRR QRRLHGLPEQFLYGTATKHLTY NDFINKELILFNS\SDNERSIPSLV DGFKPGQRKV
22389	52757	A	22517	87	292	
22390	52758	A	22518	1	903	
22391	52759	A	22519	3	311	

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22392	52760	A	22520	1	1087	MPSAAWKRPVEGPATLRRPLGI AAASQCPSSPQPGCLIGAVNLK SSNRTPVQEFESVELSCIITDS QTSDPRIEWKKIQDEQTTVVFF DNKIQGDLAAGRAEILGKTSKLI WNVTRRDSALYRCEVVARNDR KEIDEIAIEVTIVQVKPVPVCR VPKAVPVGKMATLHCQGE*GP PPAIHYSWYRNDVPLPTDSRAN PRFRNSSFHLNSETGTLVFTAV HKDDSGQYYCIASNDAGSARC EEQEMEVCHTDKRGGFPWSW AAPHLWFLQDTALLPAALTGW CSVSVAFPGAQCKLSVDLSFWG LEDGGPLLTAPLGSTPVGTLCR GSDPTFPFCTALADDLYESPTPA ANFCLDIQAFSYIL
22393	52761	A	22521	628	1117	FFISVINGQVSSVQRLSGVGPAC LSCGSANPGPPGTSPGAGAQR R*IPRADGSGSPQWPRGARVGG GRLGTGGGRGPGRVQVPRRLS PGFGR*GGTGPGPVGTSGKRGP SRRRAPANDKAAACWPRFPGQP AS*TGFRGERGVKGFSWWSGS WRAWEDGGTVH
22394	52762	A	22522	2	238	
22395	52763	A	22523	131	2891	
22396	52764	A	22524	131	3103	LVSFLFQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERVV TAPSSSSQSAEVLGELVLDGTA PSAHHDIPALSPLLPEEARPKHA LPPKKKLPSLKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LLSSSTEKPGPGDPDPPIVASEE ASEVPLWDRKESAVPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAPQEDTSPMALMD KGENELTGSASEESQETTSTIIT TTVITTEQAP

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22397	52765	A	22525	474	2527	SASPLGPYLLPSGAPERGSPGKE HPEERVVTAAPPSSSQSAEVLGE LVLDGTAPSAHHDIPALSPLLPE EARPKHALPPKKKLP SLKQVNS ARKQLRPKATSAATVQRAGSQ PASQGLDLLSSSTEKPGPPGDDP PIVASEEASEVPLWDRKESAV PTTPAPLQISPFTSQPYVAHTLP QRPEPGEPPDMPAQEAPOEDTS PMALMDKGENELTGSASEESQ ETTTSTHTTTVTITTEQAPGMQPP TPMGEPPVVKHTWILDKCNVA TLQST*ALGPNEGYIDSSDYPLL PLNNFLECTYNTVYTYGYGVE LQVTPGEYFDGELLIRGVGDP TLTVLANQTLLVEGQVIRSPTN TISVYFRITFQDDGLGTFQLHYQ GRVPRPLFPRRPDSGDVTVM DL HSGGVAHFHCHLG YELQGAK MLTCINASKPHWSSQEPICSGM LQPQPHNATIGRVLSPSYPENT NGSQFCIWTIEAPEGQKLHLHF ERLLLHDKDR*SSEGPTNKSA LLYDSLQTESVPFEGLLSEGNTI RIEFTSDQARAASTFNIRFEGEG PWELYEPIYQNGNFTTSDPTYNI GTIVEFTCDPGHSLEQGPALIECI NVRDPYWNDTEPLCRGERIHN ASAVAGVVLSPNWPEPYVEGE DCIWKIHHVGEKRIFLDIQ/FVS V*NGSVFSQEKVRPTPEWW
22398	52766	A	22526	131	3125	LVSFLLFQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERVV TAPPSSSQSAEVLGELVLVDGTA PSAHHDIPALSPLLPEEARPKHA LPPKKKLP SLKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LLSSSTEKPGPPGDDPIVASEE ASEVPLWDRKESAVPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAPOEDTSPMALMD KGENELTGSASEESQETTSTHTT TTVTITTEQAP
22399	52767	C	22527	161	352	
22400	52768	A	22528	2	368	LGSTHASVRINILSV DVLVIFYFY RRDDNKDIDSEKAAAMEAEIKA ARERAIVPLEARMKQFKDMLL ERGVKQSLG EILFCISININMS C*KVKS KVSASFWEKELHKIV FDPRYLLNLI

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22401	52769	A	22529	2	614	KDHRWESGSLEREKEKLFNE HIEALTKKKREHFRQLLDETSAL TLTSTWKEVKKIKEDPRCIKFS SSDRKKQREFEEYIRDKYITAK ADFRLLKKEFKFITYS*FSERCE SESL*KMLGLAAPQTEVLCSSST EVRSKKLIQESQHLKDKVEKILQ NDKRYLVLDVCPPEERRKLIVAY VDDLDRRGPPPPPTASEPTRRST
22402	52770	B	22530	201	296	
22403	52771	B	22531	1	1290	
22404	52772	A	22532	3	3369	SSSVMAERGGVGGESERFNPGE \LRMAQQQALRFRGPAPPNNNA AMRGGPPPLMRPPPPFMMRGPP PPPRPPFGRPPFDNMPMPMPPG GIPPPMGPPHLQRPPFMPPPMSS MPPPPGMMFPPGMPVPVAPGTP ALPPTTEI\WVENKTPDGKVYYY NARTRESAWTKPDGVKVIQQS ELTPMLAAQAQVQAQAQAQA QAQAQAQAQAQAQAQAQAQA QAQAQAQAQAQAQAQAQAQA QAQAQAQAQAQAQAQAQAQA
22405	52773	A	22533	43	347	
22406	52774	A	22534	1	1776	
22407	52775	A	22535	3	433	PLAPNHLGGGAVVLGAESHAS KDVAIDMMDSRTSQQLQLIDE QDSYIQSRADTMQNIESTIVELG SIFQQLAHMVKEQEETIQR*DR VNSAHPWDPVHLLPSTQQVFIE HLFM
22408	52776	A	22536	304	1403	SRGNATGLRTRIRVSTWVSQRH RSCPLQLLA\AAATSSPLPPPV LVPPPPDTMSCRDRTOEFLSAC KFAARPVKNGI\QTN*GQLLRW LVQRQSEIHPSLAKRHLGKDL NTFAKLEKLTILAKR\KPLFDDK AGEIEELTYIIKQDINSLIKQIAQ LQ\DFVRAKG\SQSGRHLQTHS NTIV\VSLQSKLA\SMNSNDFKSV L\EVDRDGT\KQ\QREPEERQFS RAPV\SALPLSPTHRAGGA\VV GAESHASKDVAIDMM\DSRTS QQLQLIDEQDSYIQSRADTMQNI ESTIVELGSIQQLAHMVKEQ/ ERETIQRIDENVLGAQLDVEIAA HSEILKYFQSVTSNRWLMKIF LILVFFIIFVFLA
22409	52777	B	22537	147	506	

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22410	52778	A	22538	2	1397	AAPGNGLSPSSWRSELACEFQH ECTAEVRFGAVVCRGARSHSFY LEREILQ/PPGMSL/PENPVTPL RHLMYKIKSTGPITVAEYMKEV LTNPAKGYVYRDMLGEKGDF ITSPEISQIFGELLGIWFISEWMA TGKSTAFQLVELGPGRGTLVGD ILRVFTQLGSVLKNCDSVHLVE VSQKLSEIQALTLTKEKVPLER NAGSPVYMKGVTKSGIPISW*S RICTDVPKGYSFYLAHEFLDV LPVHKFQKTPQGWREVFVDIDP QVSDKLRFLVLAAPSATPAEAFIQ HDETRDHVEVCPDAGVHIEELS QRIALTGGAALVADYGHGDTK TDFRFGCDHKLHDVLIAPGT ADLTADVDFSYLRRMAQGGKVA SLGPIKQHTFLKNMGIDVR/L*R FF*INQMRPSVRQQLLQGYDML MNPKKMGERFNFFALLPHQRL QGGRYQRNARQSKPFASVVAG FSELAWQ
22411	52779	A	22539	2	377	
22412	52780	A	22540	2	1427	
22413	52781	A	22541	2	568	CSSPSN/TILGVQKLNSQWRLA QDFRLINEAVIPLYPVVPNPYTL LSQIPEEAESFTVLDLKDAFFCIP LHSDSQFLFAFEDPTDHNSQUT WMVLPQGFRDSPHLFGQAQAQ DLVHFSSPGTLVVQYMDDLLL ATSSEASCQATLDLNLFLANQ GCKRVGIALGVLTQTGHTTPQP VAYLSKETDVAAK

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22414	52782	A	22542	1	1230	GPRGTGPGKARSEKGCSSLHG PQTNKPLVVQKGQKMEQANHP VGLVISVYVKDILKKIVQRETS HPLIHVRYAEAITGRRTAPEDK GSLGRDMLAKAGAIHNMNMG KLPIWCHLLEEGIYLEVWALEG QFGRAKNACPVQIRLKDPTTFP YQRQYPLRPEAHKGLQDIVKH VKAQGLVKKCSPCNTPLGVQ KPNGQWSLVQDLRLISEAVIPL YPVVPNPYTLLSQIPEEAEWFP VLDLKDAFFCIPLHYDSHDSQF LFAFEDPTDHTSQLIWTVLPPQ FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSEASCQ QATLDLLNFLANQGYKASRSK AQLCLQQVKYLGILARGTRTL GKERIQPILAYPHPKTLKQLWG FLQIT/GFCQLWIPR*SKI
22415	52783	A	22543	1	211	
22416	52784	A	22544	1	472	
22417	52785	A	22545	1	393	
22418	52786	A	22546	59	411	SWPSDKQTLVVQRGQKMEQA NHDPDTHMSQLMWT/VLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSEASCQ QATLALLNFLANQGYK/LSRSK AQLCLQQVKYLCL
22419	52787	A	22547	43	236	TSSLRKEDSAPSQKSVVFTL TSQG*VPLWRTLQLQGPFFTPSS RK*LELSSANSQQHLGCPV
22420	52788	A	22548	1	1446	
22421	52789	A	22549	1	1521	
22422	52790	A	22550	2	689	
22423	52791	A	22551	1	64	
22424	52792	A	22552	636	1586	SNDRTEDDCGKHPFMSSPPATEP WVCLIEGQEIDFLDGTGTFVS LIPCLGLRSSRVTIQGLGQPV RYFSHLLSCNWETLLFSAFLV MPESPPTLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSPCNTPLG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVPPEAEW FTVLDLKDFAFFCIPLHSDSQFL AFEDPTDHTSQLMWMVLPQRF RDSPHLFGQAQALQDLGHFSSPG

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22425	52793	A	22553	292	1493	SNDRTEDDCGKHPPMSSPPTFP WVCLIEGQEIDFLD.TGTTFVS LIPCLGRLSSRSVTIQILGQPVT RYFSLHLLSCNWETLLFSHAFLV MPESPITPLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLTSQVPEEAEW FTVLDLKDAAFFCIPLHSDSQFLF AFEDPTDHTSQLMWMVLPQRF RDSPLHFGQAQDLGHFSSPG TLVLQYSEIAKTLTLIKEMER ANTHLVEWEPEAETAFETLKQ ALVQAPALSPTGQNFALYVIE RAGIALGLTQTHTTPQPVAY
22426	52794	A	22554	2	307	
22427	52795	A	22555	3	400	
22428	52796	A	22556	2	78	
22429	52797	A	22557	395	1336	SNNRTEGASSCHPLTEPQVCLT IEGQEIDFLD.TGTAFSVLISCPA WGTGQDSVSKKNEKKRKEKA KGNHQANAEAKIAARWNPSLE IPTEGPLVWNNPLQEIKPQYSLT ETEWGLSQGHSFLPLGWLMT EVKVLPIEASQWKILKTLHQTF QMGIENIQMAKSLFTGPNLL WTIRHVVKACEVCQRNNPLVH HKAPLGEQRIGHYPGEDWQLD FTHMPKSKGFQYLLVCVDTFT NWIEAFPCKIEKAQEVNKLVIH ETIPRFGPLQSLQSDNDPAFKA MITQGIFQGAKDTISPSLCLEATI LREGREGN
22430	52798	A	22558	244	638	GPLNPTFLGPPCGLGGKLVFLL LRQ*VQLFRSAGSRDRCGFLDR ERNKTNQNCGKQAKKSPKDHK NPRAVGYVPFNL*QEGNLAQP GYMSPSPSLI*SRSRQTWGSFQ MILIGTKRNRPKRKSEIRERLQP
22431	52799	A	22559	210	600	RGKRTWRERRNGWSRGFCPLP LTGWSLISRESPLACLGELG VPGM*DLPHAWPTTLMCPFLV GSWSH*LQE*SHGPSQ*VLQLL RWCVWSLFLLMFGCVWSFFLL VSSWSRWLRSEATDLCGECYSS

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22432	52800	A	22560	2746	5211	ETSCPLVRVHYEAETGRCTAP EDEGLGQKPPARRSNRTEGA WGKRQLMSSP/STEPVCLTIEG QEIDFLDGTAAFSVLISCPGRL SSTSVTIQGILGQPVTRYFSHLL SCNWETLLFSHAFLLMPEPRTG LLGRDILAKAGAIYMNMGNKL PICCPALLVEGINPEVWALEGQF GRAKNARPLQIRLKDPTTFPVQ RQYPLRPEAHKGLQDIVKHVK AQGLVKKCSSCNTPIILGVQKP NGQWSLVQDLRLISEAVIPLYP VVPNPYTLLSQIPEEAEWSWAL TFKDAFFCIPHSDSQFLFAFED PTDHTSQTGTVLPGGFRDSPH LFGQALAQDLGHFSNPGTLVLQ YVDDLLATSSSEASCEQATPDL LNFLTNGYKVSRLKAQLCLQ EVKYLGLILARGTRALSKE*IQP ILAYPHPKTLQLRGLEITGFC *LWIPGYSKIARPLYTIKETQR ANTHLVEWEPEAETTFKTLKQ ALVQAPALSLPTGQNFSLYVRE RARIALGVLTQTHGTTQPQVAY LSKEIDVVAKGWPHCLRVVAA VAVLASEAIKIIQGGDLTV*TTY DVNGILGAKGSLWLSNCLLR YQALLLEGPVLIQICTCMALNPA TFLPEDGEPKHDCQIIIVQTYA ARDDLLEVPLTNPDLNLYTDGS SFVENGIRKVSVDVTILESKPLPP GTSQAELVALTWALELGKG
22433	52801	A	22561	903	4440	DHPGHHSSPCHERPNNVSTLFF LPGEQHPIILLPRNCPGDKILEE NFRYNNYKRTMMSFKERLENT VERCAHINGNRPRQSRGFGELL STAKQDLVLEEQSPSSNSLENS LVKDYIHYNGDFNAKSVNGCV PSPSDAKSISSEDDLNRNPDSPSS NELIHYRPTFNVGDLVWGQIK GLTSWPGKLVREDDVHNSCQQ SPEEGKVEPEKLTLEGLEAY SRVRKRNRNGIKVPPRSRSTIG SPRPSMPSSPS
22434	52802	A	22562	1	501	

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22435	52803	A	22563	1688	2038	SATHGLSDSCYWLVSRAIGRN NLSPASPASIIHALVFLAEPQLF QPRILGLIDEESGHEGGRPAAKT RKLSGPWSRPAAFMSTLLINQP QYAWLKELGLREENEGVYNGS WGRGEVITYTCPANNEPIARV RQAISVADYEETVKKAREAWKI WADIPAPKPKELVRQIGDAL REEDSKLLRKPWCPLDVGKIL LEGVGEVQEYVDICDYAVGLS RMIGGPILPSERSGHALIEQWNP VGLVGIITAFNFPVAVYGWNN AIAMICGNVCLWKGAPTSLIS VAVTKIIAKVLE/DNK/LPGAICS LTCGGADIGTAMAKDERVNLL SFTGSTQVGKQVGLMVQERFGA RHYQNWRSLLELGGNNALIAFE DADLSLVVPSALFACCGEQLGQ RCTT/SRGRLFYYMESIHDEVFK QTLKRAYGTRSRVGNPWDPN VLYGAISHQGRQLSMFLGAVEE AKKERLAQWVYGGKVMDFPG NYYVEPTNVTSLDHDASIAHTE TFAPILYVFK/FKNEEEVFAWE* WK*NRGLSS*HSLPKDLGAESF RW/LGP/KGTQTCG/IVKQPFPT KWGLRLGGA/FGGEKAHLVVA RESGQ*C/WGKQYMRKVYVL FNYS/KDLPSGPQGIKQFQ
22436	52804	B	22564	1	1434	
22437	52805	B	22565	1	1185	

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22438	52806	A	22566	1	2450	GQACHASSSPLKSGRSGPPNFEI LYGPIFEDSLAPD*PKVIAGQIT LRDAVTVGPSSPNEAGKIYQLKP NPAVLICRVRLHLPEKHVTW RGEAIPGSLDFALYFFHNYQA LLAKGSGPYFYLPKTSQWQEA AWWSEVFSYAEDRFNLPRGTIK ATLLIETLPAVFQMDLHLALR DHIVGLNCGRWYIFSYIKTLK NYPDRVLPRQAVTMDKPFLN AYSRLLIKTCCHKRGAFFAMGGM AAFIPSKDEEHNQVLNKKVA DKSLEANNHGDGTWIAHPGLA DTAMAVFNDILGSRKNQLEVM REQHAPITADQLLAPCDGERTE RKFNALMESEKQSQNLWKFA VYSGLRHGLAALAWEDVDLE KGIVNVRRLTILDMFGPPKTN AGIRTVTLQPALEALKEQYKL TGHHRKSEITFYHREYGRTEKQ KLHFVFMPRVCNGKQKPYYSV SSLGARWNAAVKRAGIRRRNP YHTRHTFACWLLTAGANPAFIA SQMGHETAQMVEIYGMWID DMSDEQIAMLNARVMVYDVA SGNALFISELGLPENVTWLSP GEFQKWNGTAWVKDTEAEKL FRIREAEETKNMLMQVASEHIA PLQDAADLEIATEEEISLLEAW KKYRSIPLCSKVVTMMFDDRP GCPVGFPMWGRGGFDRMPPG WGGRPMPSSRRDMSPHRGPPPP
22439	52807	A	22567	1	941	MIPNVQGPMPRGLEGPNYIFIKIS KNRRYTMAVTSVGLASSLCRV VRPCRAPAGVVSRSRGPDEWL FCPQARIQQQDID/NGTLPDFIS ETASIRDA/DWKIRGIPADLEDR RV/EITGPVERKMVINALNAIF MADFEDSLAPDW/NKVIDGQIN LRDAVNG/TISYTNEAGKIYQL KPN/PAVLICRVRLHLPEKH/V TWGEAIPGSLFDLA/LYFFHNY QALLAKGSGPYFYLPKTSQWQ EAAWWS/EVFSYAEDRFNLPRG T/KATLLD*TLAGGFQMVDP LGG*TGPDHRLRYIKVENIPKV GEEGDAETTGTA V
22440	52808	A	22568	2	393	
22441	52809	A	22569	1066	1824	
22442	52810	A	22570	2	165	
22443	52811	A	22571	3	902	

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22444	52812	A	22572	1	2034	
22445	52813	A	22573	176	873	RLFGEMSKLN/HNLSEVMSKLE KQHSSKVVFVKRLSSSSRRSLVI SPPVVRTSTVSSPLTSTPSLSS KSKSESVSATEDLAPDAAQGED NSEIKELLEDEEIGKEGSEASS EEEEPLLTCTNGPSQAQSPHIESA RSQEEVPPSSPALSPGGALSPSG HPLSSAAEVVLRTRTAVPQAKG NNVVITSYMTNRGFFEDKKATF APSFMLMNIKGKNTSVVKNISILE QGQLTVN
22446	52814	A	22574	1	1890	
22447	52815	A	22575	2	1279	LSVFPRVRNFTTQAECH/KLFK VLKNFLIAGGGVHESKRAS*T LQFIYYSEWYGHEELKAIWVN NDLLWEDYEELADQAVRTM EIYVAQFSEIKERIAKGRKLV YDSARHHLEAVQNATKKDEAK TAKAEEEFNKAQTVFEDLNQEL LEELPILYNSRIGCYVTIFQNISN LRDVFYREMSKLNHNLYEVMS KLEKQHSNKVFVVKGLSSPSTL SLKSESESVSATEDLAPDAAQG EDNSEIKELLEEEIEKEGSEASS SEDEPLPACNGPAQAQPSPTT ERAKSQEEVLPSTTIPSPGGALS PSGQPSSEATEVVLRTTASEGS EQPKKRASIQRTSAPKPEKPV RTPEAKENENIHQNQPEELCTSP TLMTSQVASEPGEAKKMEDKE KDNKLISANSSEKIYFQRPSVLI

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22448	52816	A	22576	1	1791	MPGARTSSSGASENHRARGQG GGPOGVGRMAEGKAGGAAGL FAKQVQKKFSRAQEAL*KLQ KAVETKDERFEQASNSFYQQQ AEGHKLKDLKNFLSAVKVMH ESSKRVSEITLQEIYSSEWDGHE ELKAIIVWNNDDLWEDYEKL ADQAVRTMEIYVAFSEIKERI AKRGRKLDVYDSARHLEAVQ NAKKKDEAKTAKAEFFNKAQ TVFEDLNQELLEELPILYNSRIG CYVTIFQNISNLRDVFYREMSK LNHNLYEVMSKLEKQHSNKVF VVKGLSSSSRRSLVISPPVRTAT VSSPLTSPSTSLKSESESVS ATEDLAPDAAQGEDNSEIKELL EEEEIEKEGSEASSSEDEPLPA CNGPAQAQSPPTTERAK\SQEE VLPSTTTPSGGALSPSGQLSSS ATEVVLRTRTASEGSE\RPKKT ASIQRTSAPRRPPPPRATASPRP CSGNIPSSPTASGGGSA\TSPRAS LGTGTASPRTSLEI*PNPE\PEK PVRTPEAKENENIHQNPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSEGQDQLQV SMVPENNNLTAPEPQEEVSTSE
22449	52817	A	22577	2216	2568	RPSLGLGM/CTIWQ/TSLA/GKH RRTIETHDDYRISLEQGTGPLE PPLNALTAKSKIGCNGFFPFQIR PGKNETDGRMFSPAIGIVEDPV TGNANGPMGAWLVHHNVLP DGNVLRVKGH
22450	52818	A	22578	108	532	WGSKGNLLYSHQTHSVSHQFS LVACCLELEYSPFFPYACLLSS LMRLEKHQELNLWPAHQRSRMR HPQDTLVVFS/HHGRVLL*DKT SRGTIRQQHSRFTKICCSAATAA VTQANRVWSGPLANSNRPAAE GPVLAAFMGWL
22451	52819	A	22579	1	1125	

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22452	52820	A	22580	1	985	MCARGSLWGCYSLERKCEAA LPDRVVSSKSACGAVSQDLLQ AQGRRAQPPSWLYADPVHTGT IECGHGWCLNAAALLDFQSPQRL LTYLHCGLQRPMESSDPELAPM VHHQEGIYLNIRKAMYDKPTA NKLNWDKSNVSSLITGTRQEET TANGTTFAITHLQFFIQAIPVPR KTLNLRADYYFPEHNPSLTLVI NRRITKFSEPNWEAPPSRGLTP HTAGYSSETKIPEERSDSIRGS RKSAVLQPLLLDSQANRVWSG PLANSNRPAEAGPVC*LWVVT LHGPKATMQVCQQLPW
22453	52821	A	22581	294	934	YPPSPAELTVCLRLQQLRDVL YCIAYPSGPGVKPFRGNSA/G/V VFPADNLSEAQMQLIARELGH SETAFLHSD/DSVRI/RFTPTV EVPI/CGHATVAAHYVRKVL/ GLGNCTIWQTSLAGKHR/VTIE KHNDYRISLNALTAIS/KKIGC NGFFPQIRP/KNETDGRMFSP AIGIVE/DPVTGNANGPMGAWL VH/HNVLPHDGNVLRVQ*GPR
22454	52822	B	22582	1163	5585	
22455	52823	A	22583	2	429	AACAAAMSLVIPEKFQHILRVL NTNIDGRRKIAFAITASSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSVNLLSNGLYL/VKG VGRRYAHVVLKADIDLTKRA GELTEDEVERVITMQNPRQYKI PDWFL
22456	52824	A	22584	84	424	GVHAASDKPCWITTSQTPDVQ HRW/WLLISSML*TAENRRSDK AFTPHPTNHAGSQLRKHPTCSI DGVIDIFHAVNTFVQHHEETL KAFHVTGHHILIAHGLGVGKE NTEHAANVVNDQRNSGFFCRF QQTFCQTCCLIQRFVNARLRD FISC
22457	52825	A	22585	88	381	IQVLANGLDNKLRREDLERLKKI RAHRGLRHFWG*VGGLSLPTS TQHSSYSLFFFPNLLFLLCMTCD SSLFTCSLRVRGQHTKTGRRG RTVGVSKKK
22458	52826	A	22586	355	699	FIDTTEAGSHFLYALVRFAATIT TITDDGARRLRTLFRQQAQDLV SVSKSGFFTADCTHTNALIDVV RTIFNNAVF*NPGFVIARLKIEIA IIKATFGQLTEDREQVLMFQAV RR

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22459	52827	A	22587	1389	1532	SVLPGRPDARQYRQTRQSW*R WSLRRLRGSYVPVAGRSLRRHRQ TERF
22460	52828	A	22588	1	427	LVHQQWQIQTKKKSLIYPFCHSP SQRVVEVAALDQWLAMLYPR VEHQAVLAVVVVVVGLVLRP YHTRRDVRLRLQPAVFIVAV DIVRILRDVIRPHCECTVRVIR SGSGSRLPAGSVAYGMRMSRS GARVRTLSILPVAL
22461	52829	A	22589	1	915	
22462	52830	A	22590	1166	1321	
22463	52831	A	22591	813	977	
22464	52832	A	22592	3485	4237	
22465	52833	A	22593	1	499	ARAAACAAAMSLVIPEKFQHIL RVLNTNIDGRRKIAFAITAKG VGRRYAHVVLRKADIDLTKRA GELTEDEVERVITIMQNPTQYK IPDWFLNRQKDVKGK\FQPGS *ANGLSTTKLRENKLPKEDSG PIKGLRQLP/WGLRVRGQHTKT TGRRGRTVGVSKKK
22466	52834	A	22594	1	1197	
22467	52835	A	22595	1	1905	
22468	52836	A	22596	37	514	WTWWLRRCYENRRHCHLLQQ LPTSPHQHAVATPTTVAVPTAP AATPPVVVAVVAVPVVVVVVP VVPVVASVPFVEPGSDVIVCAE MDEQWGYVGAKSRQRWLFYA YDSLRTVVAVHVFGERTFDVI WMTDGWPLYESRPAFTGRDC VDDAFFAVAGV
22469	52837	A	22597	1	471	
22470	52838	A	22598	2	323	SRIQPGSDVIVCAEMDEQWGY VGAKSRQRWLFYAYDSLRTV VAHV/FGERTIRTLRLRFLCLR SSHDLVSSPVSHRRRRAGSRQR HRRARGGENVEYQWGALRHG
22471	52839	A	22599	2033	2310	ARYVGNAGCTGGALFGRSQTI REAVG/ERRLAESRDVAALDTP CDPEIKMAEWMQTLKETGSTS GHIVTRRISVRISHVTPGPASQD GPDVQQR
22472	52840	B	22600	1	4891	
22473	52841	B	22601	7	1233	
22474	52842	A	22602	193	492	
22475	52843	A	22603	1	486	

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22476	52844	A	22604	62	443	RSDRLLIHGFSFPAMGFRLRKT VVAHVFGERTMATLGRMLSL SPFDVVIWMTDGWPLYESRLK GKLVHISKRYTQRIERHNLNR QHLARLGRKSLSFSGGTACCG HCLTRDIPMLHHQGNQLF
22477	52845	A	22605	971	1444	SMGSGDMRSPSRAAALRQLPR PFRQLAVRMEMISFRSAKEQT KSLRKWRKAKSIF*SVAQTGFN VLVCTTHIETGIDSRQPTLLSLNA RITSVCAAAPVTRSRRTFASSGY AWLLTPHPKAMTTDAKNVLKQ LPRWKISGGQVRAGTARSGDSRR W
22478	52846	A	22606	1	1047	
22479	52847	A	22607	318	598	LTGFRRLCDLRFGGGAVRSVLA RSREFILQH*FRIVTGSMSGRSL VPSAPLR/PSIVLVFRKAW*L VKTQRKMHVVSIVQKKASCWYP LLGCL
22480	52848	A	22608	1	2652	
22481	52849	A	22609	1	852	
22482	52850	A	22610	1	807	
22483	52851	A	22611	1	1740	
22484	52852	A	22612	1	3144	

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22485	52853	A	22613	173	1983	PVQNGSSPLGALPGAPLIFGPSV PAISRPGSCSPWPTLDTSGYSA PR/WLFTAYAGSEAVFAHVF ALGDAGLLMSLLSPFDVVIWM TDGWPLYESRLKGLHVISKRY TQRIERHNLNLRLQHLARLGRKS LSFSKSVEQHDKLESLPGQIDKS LDEASLSLRAGSLRTITHILLPLL RPAILSALIYSFVRAITTVSAIVF LVTPDTRVATAYILNRVEDGEY GVAIAYGSILIVVMLAIIFIDWL IGESLLSRFEKTVDDHSQSRLPA EGSILSQDISGVKLFSLTPARG YVPIRAPCPFLCASYRFFCVARQ QGLDAALIDAPLAVDALTPLE LLSHVGQAPCSVPVDEDDQY VGIISKGMLLRALDREGGVRVP VDYILNGFHPLLLGMPAPLAIIV FALIAACRFPGSNGRIRRSRRIRH LHKMPDATALSASYQAYVRHQT NVTALVLRSSHRFRKDRHCWG FVFLQQPILRATGQFEIQTFRYL SVFSVQRHKTNGKTALMSGNV ADKAVNRATGPTACVWLFSLR NSSMVTTRFCGLCEWADQQGA RPARISENGKRGYSYLYDVHM GAQSGETRGRQGEYASKPPSRE
22486	52854	B	22614	1	2149	
22487	52855	A	22615	1	1815	
22488	52856	A	22616	2014	3411	
22489	52857	A	22617	1	922	MVICQPINGGWQWPPSTGTDP APYFRIFNPITQGEKFDHEGEFI RQWLPELRDVPQKVVHPEPWK WAQKAAAPPQTRLHSTPTTIPH RVPGHPTPNLKPIWEVDLPKFSH KATSHATDKPSDTTQNDQIVIA YMEPPEIVHETTTSTHPSLYIIL KRQTRELRPQSVTSRIQPGSDVI VCAEMDEQWGYVGAKSRQRW LFYAYDSLRLKTVVAHVFGERT MATLGRMLMSLLSPFDVVIWMT DGWPLYESRLKGLHVISKRYT QRIERHNLNLRLQHLARLGRKSL SFSKSVELHDKVIGHVYLNKHY

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22490	52858	A	22618	1458	2185	YGHEWRWMPGNRPH\YGRWP QHDFFPKKLRPQSVTSRIQPGS DVIVCAEMDEQWGYVGAKSR QHWLFYAYDRLRKTVVAHVFL GERTMATLGRLLMSLLSPFDVVI WMTDGWPLYESRLKGLHVVIS KRYTQRIERHNLNLRQHRLRLG RKSLSFKSVEKITSGPTTNA TP GTQKTATDKRGGKKLPQIPIGP ISRIASGAAINTISIGLRKFLVTA GVMLSTQRSIYDRHQVITSAGIT
22491	52859	A	22619	493	1518	
22492	52860	A	22620	963	1597	
22493	52861	A	22621	1	3052	MATDSVGLNCTPAPHARDVLL WRPSSLPVSTSCVFPGLGRIGDVS DESDDKTEAPTPHRLKAREEG QIPRSRELTSLILLVGVSIVWF GGVSLARRLSGMLSAGLHFDH SIINDPNLILGQIILLIREAMLAL LPLISGVVVLVALISPVMLGGLVF SGKSLQPKFSKLNPLPGIKRMFS AQTGAELLKAILKTILVGSVTG FFLWIIHWPQMMLMAESPITA MGNAMDLVGLCALLVVLGVIP MVGDFVFFQIF
22494	52862	A	22622	1	1233	MANDLPHSNSGDGQKPSPLDF TAPLLADPTVGFLPNDAEELFIF LTEITEITPCRVTDQPLVVTLHE KKGDVALPVYPYDHQGFSGIFE DRSYICKTTIGDREVDSDAYYV YRLQAVPPVQLLTGWCVTAKA PPDISAISALTAVKHGNCSSLTP LLNPPGSDVIVCAEMDEQWGY VGAKSRQRWLFYAY'DSLRAR RVVAHVFGI*RTMATLGRLLMSL LSPFDVVIWMTDGWPLYESRL KGLHVISKRYTQRNERHNLNL RQHRLARLGRKLSFSKSVELHD KPSQHQREGVKDVMRFNEPMY PLESRPLVYVCHLRNGAQASGR RCQLPMGCACHPVSQRNDRPN RRPERHATRKTTTRQORQNSRQ HKQTQKKAKPNKRATERGKG PQQKAERPKRHTHCFCLKQ

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22495	52863	A	22623	3	1386	HEASSPLAMASLTVKAYLLGK EDAAAREIRRFSCSPPEAEAE AAAGPGPCERLLSRVAALFPAL RPGGFQAHYRDEDDGLVAFSS DEELTMAMSYVKDDIFRI*IKE KKECRDRHRPPCAQEAPRNMV HPNVICDGCNGPVVGGTRYKCS VCPYYDLCSVCEGKGLRHGHT KLAF\SPFGHL\SEGF\SHSRWL\ RKVKHGHFGWPGW\EMGPPG\ NWEPTFLPRAGEARPGP\TAES ASGPSDEPSVNF\K\NVGESVA\ AAFSPLANFEVD\IDVEHGGKRSR LTPVSPSSSTEES\SSQSPSSCC SDPSKPGGNVEGATQSLAEQM RKIALESEGRPEEQMESDNCSSG GDDDWTHLSSKEVDPSGTGELQ SLQMPSESGPSSLDPSQGGNPQ GWKEAALYPHLP\PEVEPAA*F ESLSQMVPVPWGF*\LKGWVH QGSCRPRNYDIGAAL\DTIPVIQ
22496	52864	A	22624	1032	1127	FYAKAEAGDRTVA*PHKPKMF LSIHHRVAKI
22497	52865	A	22625	121	561	VFPGLGSLVDICGPSRVFPFWV VPAVLVPVQVQRLPRFFRCPPV LVTSVIRISITLIQALGSSPFARR YWGNLG*FLFLGVLRCFSSSTGS PH*PMNSVNDVS\SKHT/EVTPF GNPGNNGSYHLTDAYRRLARP SSPLTPGHPPLYG
22498	52866	A	22626	243	454	ATAGCPSCSATEGVVRNGKST AGHQRYLCSPCRKTWQLQFTY TASQP/GARIMGVGLNTVLRHL KNSGRSR
22499	52867	A	22627	3	640	
22500	52868	A	22628	236	410	
22501	52869	A	22629	116	359	

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22502	52870	A	22630	276	1905	LFLYSSHGQYGCPSCSATDGVV RNGKSTAGHQRYLCSHCRTW QLQFTYTASQPAGQ*RTAIATVI CCNNCQRRHTNSRCHTDNCRR ADSASSHATSGSSRGCAGSGR CGASSTRCLGPVCCFRGSKRS WRRQHEGHKDCRKLVFHNFSEI HRMDNTAVPPVQLLTGWCVTA KAPDISAISALTAVKHGNCSSL TPLLNPPGSDVIVCAEMDEQW GYVGAKSRQRWLFYAYDSLKK TVVAHVFGERTMATLGRMLSL LSPFDVVIWMTDGWPLYESRL KGKLVHISKRYTQRIERHNLNL RQHLARLGRKSLSFKSVELHD KQQGLDAALIDAPLAVDAQTP LSELLSHVGQAPCAVPVDEDE QQYVGIISKGMLLRALDREGGV RVPVIYPKRFRTTDCMPLSLG TCIREIEAEFPDPIFRRSVVYICE HNTNGAMGIIIVNKPLENLKIEGI LEKLKITPEPRDESIRLDKPVML GGPLAEDRGFILHTPASNFASSI RISDNTVMTTSRDVLETLGTDK QPSDVLVALGYASWEKGQLEQ EILDNAWLTAADLNILFKTPIA DRWREAAKLIGVDILTMAQD GTPDWNIERLLKEWQPDIIIVG LPLNMDGTEQPLTARARKFAN RIHGRFGEVVKLHDERLSTVEA RSGLFEQGGYRALNKGKVDSA SAVILLESYFEQGY

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22503	52871	A	22631	399	2337	PEVQGLQQAGAAARRPGVGLA APRVVCEGRRLRSGGLQSRCLPG ASV*ATDGVVRNGKSTAGHQ YLCCHCRKKTWQLQFTYASQP AGQ*REKEKEKEVEEEEEKEK KRRREGEKEKEKEKEKEK FKKKKKKKKKKKKKKKKKKK KKKKKKKKQLSLVTVMSSQQQL WRNEARTTGACLPSTVSAAP PIVSTTVTAFAAATLAKGDLRS RASSKQVPLLVVLVWVWPHPG WFKAGSVALGSSPGCVLELL CKLLTGWCVTAKAPPDISAISA LTAVKHGNCSSLTPLLNPFGSD VIVCAEMDEQWGYVGAKSRQ RWLFYAYDSLRTTVVAHVFE RTMATLGRMLSLSPFDVVIW MTDGWPLYESRLKGLHTQER KARSKQKQDADTAPPIQVGTQ TPQTVHAARDTRQASPRASKIS QHRQADGDKRQTRHAEAQAT RHTGRRKTIKETATQQAAYADE QTRRTARTHRRRTARHTAAHTH RTRVAARQTTEKDNEQSDTQPP TQKTPSATATAHTPRRTETTTNI VQARHTSARERNHTRQHQA RETTINAHTNTPHYHAEHTQSR SQQQTSTERTPTDSSTTINNN HTPRTVRDERMTQHKHPSRA STTTNRTTTTGAYQHTQRDTRD TRRDTHEDTTTQPHTTTPTAN EAYTAHTTKTDHHRHTADDT
22504	52872	A	22632	103	313	ATAGCPSCSATEGVVRNGKST AGHQRYLCSPCRKTWQLQFTY TASQP/GARIMGVGLNTVLRHL KNSGRSR
22505	52873	A	22633	620	832	

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22506	52874	A	22634	453	1047	AADDRGHLRPTDGLLRNGKST AGHQRYLCSHCRKTWQLQFTY TASQPAQG*RVGTGTSERREQIIQ RLRQQGSVQVNDLSALYGVST VTIRNDLAFLEKQGIARAYGG ALICDSTTPSVEPSVEDKSALNT AMKRSVAKAAVELIQPGHRVIL DSGTTTFEIALRLMRKHTDVIAM TNGMNVANALLEAEGVELLMT AGICALLTGCCVTAKAPPDISAI SALTAVKHGNCSSLTPLLNPFG SDVPVCAEMDEQWGYVGAKS RQRWLFYAYDSLRTKTVVAHV GERTMATLGRMLSLSPFDVVI WMTDGWPLYESRLKGLHVIS KRYTQRIERHNLRLRQHILARLG RKSLSFSKSVELHDKVIGHYLN GDFLQSTLREAPIPHREHP
22507	52875	A	22635	1089	1686	TSPGYWRANSTDPDGRYCRTG TSGGVCHALSSLRCPSCSATDG VVRNGKSTAGHQRYLCSHCRK TWQLQFTYTASQPAQG*RFLSK QEKTLINQLASEEQKQVTSRL SDALRNGRVWQLAIIYLTIQVA VYGLIFFLPTQVAALLGTVKGF TASVVTAIIPWVAALFETWLIPR YSDKTGERRNVAALTLAAGIG IGLSGLLSPVMAIVALCVAAGIF IAVQPVFWTMTPTQLLSGTALAA GIGFVNLFGAVGGFIAPILRVKA ETLFASDAAGLLTLAAVAVIDR RGTSNLRLNRTMIALLSNPFKE RLRKGEVQIGLWLSSTTAYMA EIAATSGYDWLLIDGEHAPNTI QDLYHQLQAVAPYASQPVIRPV EGSKPLIKQVLDIGAQTLLIPMV DTAEQARQVVSATRYPPYAVH PVQLLTGWCVTAKAPPDISAIS ALTAVKHGNCSSLTPLLNPFGS DVIVCAEMDEQWGYVGAKSR QRWLFYAYDSLRTKTVVAHVFG ERTMATLGRMLSLSPFDVVIW MTDGWPLYESRLKGLHVISK RYTQRIERHNLRLRQHTGTGW DGSRCRSQKSGGAA
22508	52876	A	22636	91	200	SGIIAFQYLLMTLKVLPVASVSI SCPSICSATDG VVRNGKSTAGH QRYLCSHCRKTWQLQFTYTAS QPAGQ*RGGA

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22509	52877	A	22637	2649	3270	GAPVASVSISCPSCSATDGVVR NGKSTAGHQRYLCSHCRTWQ LQFTYTASQPAQ*RTIGRAML KNKHMTITEFVAQRMRAQKK GEISPDINTAMTSRLLLDLTYGV LADIEAEDLARKRRLRLTRDD WRYLNRILILSLFRAGDNCAR VSYQTPTREIKKLDGLWAFSLD RENCIDQRWWESALQESRAIA VPGSFNDQFADADIRNYAGNV WYQREVFIKPGWAGQRVLR DAVTHYGKVVVNNQEV
22510	52878	A	22638	1	2470	MNADTDYSIAEAFNKGETAM TINGPWAWSNIDTSKVNNGVT VLPTFKGQSPKPFVGVLSAGIN AASPNKELAKEFLENYLLTDEG LEAVNKDKPLGAVALKSYYEE LAKDPRIAATMENAQKGEIMP NIPQMSAFWYAVRTAVINAAS GRQTVDALKDAQTRITNCCRI RRESLIRPGMRKNPMDVIKKKH WWQSDALKWSVLGLGLLVG YLVVLMYAQGEYLFATITLILS SAGLYIFANRKAAYAWRYVYPG MAGMGLFVLPLVCTIAIGFNN YRRTKQVAGMPAKSSSLRSSQ DREMRPGAKAERTRYDSPGSY GVAGPGFLGSRGSPFGGPGKY NNTITKYALNIAPSAQNQSPHG PKLNRRQETQHALDWLDAGYT FTYSEDQALTPYFKLAYVYDD NNDNDVNGDSIDNGTEGSAVR VGLGTQFSFTKNFSAYTDANYL GGGDVDQDWSANDLTGITAKD AQMLS VVKPLQEFGLDKCLS RYGTRFEFNNEKQVIFSSDVNN EDTFVILEGVISLRREENVLGIT QAPYIMGLADGLMKNDIPYKLI SEGNGCTGYHLPKQTTITLIEQN QLWRDAFYWLAWHNRIELRD VQLIGHNSYEQFAHIFMIAAM QMGSVWGDDFSSGQHSVARKS QLHKPILRVKCHEGFTISANPNS SPRYPTIIEQAEQPRIVDFSVRF
22511	52879	A	22639	1	852	

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22512	52880	A	22640	1	747	MIIDPRYTDGTGAGREDEWIPIR PGTDAALVNGLAYVMITENLV DQAFLDK YCVGYDEKTL PASA PKNGHYKAYILATD/GVVRTAK STAGHQRYLCSHCRTWQLQF TYTASQPAGQ*RYTDTGAGRE DEWIPIRPGTDAALVNGLAYV MITENLV DQAFLDK YCVGYDE KTL PASAPKNGHYKAYILATDG WCVPPKAPDISAISALTAVKH GNCSSLTPLL NPPGSDVIVCAE MDEQWGYVGAKSRQRWLFYA YDSLRKTVVAHVFGERTMATL GRMLSLSPFDVVIWMTD GWP LYESRLKGLHVISKRYTQRJE RHNLNLRQHLARLGRKLSFSK SVELHDKVIGHYLNKHYQ
22513	52881	A	22641	1722	2463	NPRLAGSEGCSPCSATDGVVR NGKSTAGHQRYLCSHCRTWQ LQFTYTASQPAGQ*RKLTGCL FVALKGERFDAHDFADQAKAG GAGALLVSRPLDIDLPLIVKD TRLAFGELAAWVRQVPARVV ALTGSSGKTSVKEMTAAILSQC GNTLYTAGNLNNDIGVPMITLL RLTPEYDYAVIELGANHQGEIA WTVTHPPRFVTKWQLCLPDG LLLFAEARFVIWQMOPAVMAV DVAAFAHLFNQQYQRF TGR PDSSKL PWKITCNGECVTFHW WLLGVAVRISRLLPVRVMTAL EGNYNGTEGISALPFNGIILAH NESEWVTRNNKNNEAFLDRV YIVKVPYCLRISEEEKIYEKLL HIFECWQHFLNPESLQCYIWA ANADFREARQVIFKTFFTVGVE EELGIRQTRTNDLFTGDNLLRI FRFDVGNEDKVRQQFAVVRIH REVFLVTFHGVNQRF SRHREEF LFECVSVTANLTRCFGIGFNL RLTFFVIGDDFPTLTQNFRLIGV IDGEFRLAHKAVAAANHAIGLNA QNGCRNDFVAHAAGSRALAAD GRSLEHAPTVETVVAGPLCESG DVFTQEQEGNVETRALPEVKA AVPPVQLLTGWCVTAKALPDIS AISALTAVKHGNCSSLTPLL NPP GSDVIVCAEMDEQWGYVGAKS RQRWLFYAYDRLRKT VVAHRL

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22514	52882	A	22642	90	1254	KGLCSHSEMVVPSYSATDGVV RNGKSTAGHQRYLCSHCRKTW QLQFTYTASQPAQG*RDIVLTK LMMVWHSQSGYEKAYAHQIR WWYRAILLTGWCVTAKALPD ISASALTAVKHGNCSLTPLLN PPGSDVIVCAEMDEQWGVYGA KSRQRWLFYAYDRLRKTVAHV VFGERTMATLGRMLSLSPFDV VIWMTDGWPLYESRLKGKLVH ISKRYTQRIERHNLNLSSTSLVL LNGATQFQDLGDLNKELEETY TDSKNHISCVGNDGFGNDIFSR YVEAVGREGDVLLGISTSGNSA NVIKAIKAAAREKGKMTLTGK DGGKMGAGTADIEIRVPFHGYA DRIQEIHIKVIHILQIEKEMVN FTGLVQGGGTGPHKDGWGIT FYEVAFEDVAVNFTQEEWALL DPWOKKLYRDVMLETYRNLAS VGDDDNIPSLREQVAHQRYFKT WHVEREYFSK
22515	52883	A	22643	690	1233	RLQSLHYQGRGKPVPMRSYLS FLFTISNSAGVFRCPSCSATDGV VRNGKSTAGHQRYLCSHCRKT WQLQFTYTASQPAQG*RLLGP KNRPREQNWLLWCERGVMRL QALYLREQGFNNVKVDNFQTK VDSCTRPLAGQFYPCIPDDAL VQPLFGGNFVFORREAGHITNR EDIVRHQHGGRGANSRDDTP GTVELFNGFNQSAIAKTLRAF NATRQHDHVFVAFSHFDQRIR QQLHAAARAGNRQVTIAGDAGS GDFDTAANQQIDS GDGFSLFTT RGEANQCRCAHIHSPFFLPFQT VRVFSAPVPVQLLTGWCVTAK APPDISAISALTAVKHGNCSLT PLLNPPGSDVIVCAEMDEQWG YVGAKSRQRWLFYAYDSL RKT VVAHVFAVKPYWDTGGGFHC RWIYMQQEKELLQLSLQGGKY NQKRAAELLGLTYHQFRALLK

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22516	52884	A	22644	1314	1483	RIQRYCGKTCGCPSCSATDGVVR NGKSTAGHQRYLCSHCRTWQ LQFTYITASQAGQ*RMFNADG SEVAQCGNGARCFARFVRLKG LTNKRDIRVSTANGRMVLTVT DDDLVRVNMGEPNFEPSAVPF RANKAEKTYIMRAAEQTLICGV VSMGNPHCVIQVDDVDTAAVE TLGPVLESHERFPERANIGFMQ VVKREHRLRVYERAGAGETQA CGSGACAAVAVGIQQGLLAE VRVELPGGRDLIAWKGEELQET LTELDRAVVDYLIKNEFFIRN ARAVEAIRVPHVRGTVSLVE WHMARARNHIHVLEENMALL MEQAIANEGLFYRLLYLQSLT AASSLDDMLRFRHWARDLG LAVAMPVTINKGNQIENQLDT ETITISYEFILCQHIANTEFSYL ALPENYNRLCLPNSKNQTNRF KTLNSKAIGRLLAAGVYNGNI EGFRDTAEKLAVPPVQLLTGW CVTAKALPDISAISALTAVKHG NCSSLYTASQAGQ

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22517	52885	A	22645	1479	1793	TRYRSCPCSATDGVVRNGKST AGHQRYLCSHCRKTWQLQFTY TASQPAQG*RRNACQYRTPAV VASRQKRWHGDLGMIGSRDV MLFISDSVGAKELDLIIPLEDK SIALLAMITGKPTISPLGAAKAV LDISVEREACPMHLAPTSSTVN TLMMGDALAMAVMQARGFNE EDFARSHPAGALGARLLNKVH HLMRRDDAIPQVALTASVMDA MLELSRTGLGLVAVCDAQQQV QGVFTDGDRLRRWLVGCGALT PVNEAMTVGGTTLQSQSRAIDA KEILMKRKITAAPVVDENGKLT GAIKLQDFYQGRGLFNPSIPRVS TADAGLANRARNWVGSSWK QVGQIILQGGPQNAEKSGQRYT VSHDRHRDAERQVRKSGLPY AECSTYPCPVALDLAFASHGI HMHAPGEALRMLVTAMDKAA DARTKLARLLATKGITHEIQIPD ISTKEKAQQPIGLNMEQIKPEKQ DFIKPVIPQAGKHNGVNMVLR SLLTAGVLASGLLWSLNGITAT PAAQASDDRYEVTQQRNPDAA CLDCHKPDTEAVPPVQLLTGW CVTAKAPPDISAISALTAVKHG NCSSLTPLLNPPGSDVIVCAELD EQWGYVGAKSRQRWLFYAYA QSPRTTRCCARIRLHALWRRW

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22518	52886	A	22646	807	1350	NRGCPSCSATDGVVRNGKSTAGHQRVLC SHCRKTWQLQFTY TASQPAGQ*RLNRLIEPTRGQV LIDGVDAIKISDAELREVRKKI AMVFQSFALMPHMTVLDNTAF GMELAGINAEERREKALDALR QVGLENYAHSPDELSSGGMQR RVGLARAINPDILLMEAFSAL DPLIRTEMQDELVKLQAKHQR TIVFISHDLDEAMRIGDRIAMQ NGEVVQVGTPEILNNPANDY VRTFFRGVDISQVFSAKDIARRT PNGLIRKTPGFGPRSAKLLQD EDREYGYVIERGNKFVGAVID SLKTAAPPVQLLTGWCVTAK APPDISAISALTA VKHGNCSSLT PLLNPPGSDVIVCAEMDEQWG YVGAKSRRQWLFYAYDSL RKT VVAHVFGERTMATLGRMLSL SPFDVVIWMTDGPWLYESRLK GKLVHISKRYTQRIERHNLNLR QHLARLGRKSLSFSSVELHDK VIGHYLNKHYQ
22519	52887	A	22647	1	1270	MTAATEQLNASRGLSTREMER QAEAKITTDYINSGGSEGDEK LQNMKAQNDYYAAEDAKRA DWLAGAESAFADYGDSAMD M YGNVNEIASSALNGMTDMV QFLTGTGKAFADF AKNIISMIIK MIAQMVIFNTSLRNDGRSVSSG GAAVSLAAAAGSVATSGFNAS NSAPKVVITIREVERSDVSGME ASSTSWITIRSFATETSTFGPTM TASMTFLPTYCSIIASLLSSFKLA AATDGVVRNGKSTAGHQRVLC SHCRKTWQLQFTY TASQPALA RNPNRDITIYWGGREEQHLYDL CELEALSLKHPLQVVPVVEQP EAGWRGRTGTVLTA VLQDHAT DGVVRNGKSTAGHQRVLC SHC RKTWQLQFTY TASQPGTHQKII DMAMNGVGCRTARIMGVGL NTIFRHLKNSGRSR

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22520	52888	A	22648	381	945	GAPVASVSI SCPSCATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTYTASQPAQ*RTENQTPH VLTHKWELNYENPWTQGGHLL TMGLVVGWRGLQEGDPARTN LSYYQANVGSGQHRENGKPIN LGNVGKSNGERGGKSLYRCKIF LESSVTMKDRELPPVYDGVFEV LQWLLFLSAVPPVQLLTGWCV TAKAPPDISAISALTAVKHGNC SSLTPLNPPGSDVIVCAEMDE QWGYVGAKSRQRWLFYAYDS LRKTVVAHVFGERTMATLGRLL MSLLSPFDVVIWMTDGWPLYE SRLKGKLVHISKRYTQRIERHN LNLRQHRLARLGRKSLFSKSVL LHDKVIGHYLNKHYQ
22521	52889	A	22649	354	1119	RRWRRGAHEAATGGTGRGPAE EAAPEGAAGRAAPKSGGKRL GGVLGRG GVGRRSGSPDRSGA HSAAPRRRCRLPGRCPSCATD GVVRNGKSTAGHQRYLCSHCR KTWQLQFTYTASQPAQ*RSK GAIGEGPPDRGIVEQNLGGDIS IPCYNRP RRRSAQKTTLGLPLN QPRIPSAQCAGAFPRVAAAGAG GGGGGGSGSGFCLGWRLRRR RQRRRRWRRGEGEGDGDAGH MRPRPAGRAEARRRRLRGPN PPGARLPNREGNSGVSWAEE VSGDGRGARTEAARTRRPGG ADNYPGA VPPVQLLTGWCVTA KAPPDISAISALTA VKHGNCSSL TPLNPPGSDVIVCAEMDEQW GYVGAKSRQRWLFYAYDSLRLK TVVAHVFGERTMATLGRLLMSL LSPFDVVIWMTDGWPLYESRL KGKLVHISKRYTQRIERHNLL RQHRLARLGRKSLFSKSVLHLD KVIGHYLNKHYQ
22522	52890	A	22650	23	658	VISRFSGSIQVRGLLLSRHGLAL GSAPDLWKLPPWNLVQGMGQ QSQSSCREGCSRPQCPSAAPC GAAPAHFCSAATFWESEVQSIP R/CRATDGVVRNGKS/TAGHQ RYLCSHCRKTWQ/LQFTYTASQP EVIRSSPTAPRSDGKTVPPLM GISP*SAHHRLATSDPSLCLSES LCSREPA AVPRASNQQPQGVK DVHHQFTARTSRYPSC
22523	52891	A	22651	926	1093	

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22524	52892	A	22652	343	817	GGARSQNPRCGPCMVVVPGQ SGRSVSADSSTEFREQGGVAIS FPKSINRAGPELFRFMENPFNSV *YRKNVRELTPAIVAVLPVEFR TRLAPQNDTMSLIASAMKECSE AKQAVLLNAPEHQMKKEVSEG IASLFRLMPEQVGPLMTMVT MLGVI
22525	52893	A	22653	115	425	
22526	52894	A	22654	747	1173	
22527	52895	A	22655	1	2709	
22528	52896	A	22656	1	2583	
22529	52897	A	22657	636	1029	APSDQKRDFLVPHGADSAMAK SG*CESGNDLSSSHMNQLR/A/ ESIPEDVIAGASALVLTFIKFI AENPQWWQFLKDHVSILAMN EDEAEALTGESDPLASDKALD WVDLVLTCTAGPIGLYMAGGGD VN
22530	52898	A	22658	1611	3300	QSAWANRHLVDCRPGNGSD AGVAARSGRNDGTGRCLCHS CSRYGDHHRQSDRIYRHYDAG RSPSGAVDYGTRQGNRFSRAV YPVGA/RRWR*GLPLV/QQFQPE NETSAAWVVGINQPLVDIEAK VDDEFIERYGLSAGHSLVIEDD VAEALYQDVQQKNLITHQSAG GTIGNTMHNSVLAADDRSVLL GVMCSNIEIGSYAYRYLCNTSS RTDLNLYQGVDGPIGRCTFLIG ESGERTFAISPGHMNQLRAESIP EDVIAGASALVLTSLVRCKPG EPMPEATMKAIEYAKKYNVPV VLTGTGKFVIAKNPQWWQFL KDHVSILAMNDEAEALTGESD PLASDKALDWVDLVLTCTAGPI GLYMAGFTEDEAKRKTQHPLL PGAIAEFNQYEFSSRAMRHKDC QNPLRVYSHIAPYMGGPEKCN LGRSGWLLYGRGLDKQRLTQY QSKLGAAMVIVAACWVEDYQ VIRLAGSLTARATRLAHEAQLD VAPLGKIPHLRTPGLLVMDMDS TAIQICIDEIAKLGTGEMVAE VTRTGDARRTRFYRQPAQPCG
22531	52899	A	22659	430	586	
22532	52900	A	22660	1	131	

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22533	52901	A	22661	1	1282	MLPAHLDACVTTLQKIRWTL VVDPPTLALRVPLPALSRDDPPL RAYLPGRGALKVIRFDDMDFA TIDGINRMLVDIDTNYLFLPRVT SSTIRCLSVPTRTVPAVTSAGR SVKYYPPDFDPSKIPKLLPKD RQYVVRLMAPFNMCRKTCGEY IYKGGKFNARKETVQNEVYLG \LPI\RFYIK\CTRCLGRDSPFKT DP\ENTDYTM/ESLGATRNFGQ* EASWEEEEKRVQK\EREDE/ES LNNPMKVLENRTKDSKLEMEV LENLQELKDLNQRQAHVDFEGV MLRQHRLEEERSSQQEFEFQ KTAALLEEARKRRLLEDSDSED EAAPSPLQPALRPNTATLDEA PKPKRKEVEVWEQSVGSLGSRPP LSRLVVVKKAKADPDSCNGQP QAAPHPRSPAEGEGGPYTPDA WRVLPPTGCPGQ
22534	52902	A	22662	1	412	
22535	52903	A	22663	298	532	MGSWSLPGRTLWKEKVRFLKS KERTNPGSNFFSPGSHREER SQECLSLPVLPSYLATRLSLPDS CPLKGRKAH*QRHSEI*LMGFE PGWPGKL*GWIELAFLGCLHL TLPLPCPTPLPPKSTKSGCFLSI ALCFNKQFAVTK
22536	52904	A	22664	1	193	
22537	52905	B	22665	55	281	
22538	52906	A	22666	86	159	
22539	52907	A	22667	63	1036	VRGGLAAGRGRGSAGAAPVVV AAMLGAWAVEGTAVALLRL LLLLPPAIRGPGLVAGVAGAA GAGLPESVIWAVNAGGEAHVD VHGIHFRKCIPL*GRVGRALYY GMKLPILRSNPEDQSCYQTE\RS N\ETFGYESPIQREGGLTCWSL KFAEVVYFAQSQKVFDVRLNG HVVVKDL\IFDRVGHSTA\HDEI IPMSIRKGLSVQGEV\ST\FTQG KLLPLSFSKGYL*PIPKVCAL\YI MAG\TVDDVPKASAFNPGLEK KEEEEEEEYDEGSNLKKQT\NK NRVQS\GPRTPNPYALDNSSL\M FPIL\A\FGVFIPTLFLCLRL
22540	52908	A	22668	1570	1773	

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22541	52909	A	22669	62	454	NKQLNKKRRRTMIALIQRVTRA S/VTVEGEVTEIGAGLLV/LLG VEKDDDEQKAN/RDAEQGM/N LNVQQAGGSVLVVSQF/TLAAD TERGMRPSPFSQGHHRIRAAQAFY DYFVES/CRQQR*YAQGGLSAE FRLLNS
22542	52910	A	22670	1	1930	MAGKPEYDKTISTIVL.NALNA LGVSAEASGRNDLVVKTVEGD RKVSGSAYRETKDRGFHHGTL LLNADLSRLANYLNPKKKLA AKGITSVRSRVNTLTELPGITH EQVCEAITEAFFAHYGERVEAE IISPNTDPLNFAETFAQQSSW EWNFGQAPAFSHLLDERFTWG GVELHFDVEKGHITRAQVFTDS LNPAPLEALAGRLQGCLFSLYN SDLNTVIDNVLRIFFLLSWISF WLLYSIVPTIRVFNDAIVGAFV AALLFEAGKKGFALYITMFPST QLIYGVLAIVIPILFVWVYWTCV TVEGEVTEIGAGLLVLLGVKE DDDEQKANRLCERVLGYRIFSD AEGIKMNLNVQQAGGSVLVVS QFTLAADTERGMRPSPFSKGVID DIGFNTEISQTRFHQASHLFKRR GIYRLHFARRCQIQRRQRRR RFMQRTAVAITHQORMKQGIL RLWRNWLLWLLILLRRNRLL RLILLLLWRNRLLRLLILWLR NRLLWLLILRLRRNWLLRLLIL LLRCNRLLRLLYRFNNWRKQR FVWTIIQQRFWRKFKIIQRERI RPSRLFAGITLLLSRLKTSQFS LCRSICIFCVYGHIMILFAJALL LCLGELTCQFILLHRIDFIIIVLI
22543	52911	A	22671	377	463	QTISQTTVQSN*NSGLRISPKTA QLHGD
22544	52912	A	22672	129	615	KARQKSCQPVTTDTQCRHTSSS IGKRLAFQNLQIHTESTMKP WILLVVMFISGVVMLLPVLGSGF WNKDPFLDMIRETEQCWVQPP YKYCEKRCTKIMTCVRPNHTC CWTYCGNICLD/IRRA*/HQC* TPRFYWPITTVG*RMTIWSKKKS AAFYLLGTPTWL
22545	52913	A	22673	3	412	
22546	52914	A	22674	2	390	

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22547	52915	A	22675	180	507	CCGGRARSELCLLNLCIKGAD*I QAW*KFCQWPCERADGRGCRK AERICPCPKGAYSL/YCRESVCC LPSFVNKNSSSLCVAHNWGRH CYLWTAADVQFISSHMFPVE HL
22548	52916	A	22676	3	227	GGGRARSELCLLNLCIKGAD*I QAW*KFCQWPCERADGRGS*F DRGAEVNQTDWQSIRSSQGG RDQRFFTERA
22549	52917	A	22677	567	842	
22550	52918	A	22678	1	1400	MGWGQGPDPVQLMNGHERSPS HSPREAKKSGSPLTDIHCFSPQ SQPAMVITGVPTAPAGASAKM GLCATPITGACPLWLRGFRGWR CEDRCEQGTYGNDCHQRCQCQ NGATCDHVTGECRCPPGYTGA FCEDLCPGKHGPQCEQRCPCQ NGGVCHHVTGECSCPSGWMLS FPGWRPI*FSKSL*MQGTVCQG PCPEGRFGKNCSQECQCHNGGT CDAATGQCHCSPGYTGERRAAV PDVRKICQDECPVGTGYVLCAE TCQCVNNGKCYHVSAGLCEA GFAGERCEARLCEPEGLYGICD KRCPCHELENTHRGDDREKA EF GHLLIALEVQYTEISNCIEKSQE ASCYDIRMLKQPYGETNTEEL AVNYVYSIYASKEQIRYKHGRS FANGHVKELMEGFSRRRIGSGG EKYKRDEEKNLTLRGQNRGGR GKNPKKTKAWVKIQGQNKIEIS GVGADRKRFFREK

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22551	52919	A	22679	1	2210	MEQKGFEKNDTLIYEFFHIVAK PHPLIKSSTYTTTFQSARVTRFF LDAEKECRCEGQVEAALIAM GGTCQGTQRLSTAGESESATH MREPAVQCRRDSQCVSVLAGR RRFFQGAASPLHPASVALTQLIH VRWASTATIGQVSGFPGKIRVS PTTNLGDSDYIFTASHWGLGHY GPAVHVHSQGGIDERGSNDSG RLYVTNPGGNVPSWTPNIDRLA EDGVKLTQHISAASLCTPSRAA FLTGRYPVRSGMVSSIGYRVLQ WTGASGGLPTNETTFAKILKEK GYATGLIGKWHGLNCESASD HCHHPLHHGFDHFGMPFSLM GDCARWELSEKRVNLEQKLN LFQVLALVALTLVAGKLTHLIP VSWMPVIWSALSAVLLASSYF VGALIVHADCFLMRNHTITEQP MCFORTTPLLQEVASFLLKRNK HGPFLLFVSFLHVHPLITMENF LGKSLHGLYGDNVEEMDWMV GRILDTLDVEGLNSNTLIYFTSD HGGSLNQLGNTQYGGWNGIY KGGKGMGGWEGGIRVPGIFRW PGVLPAGRVIGEPTSLMDVFPT VVRLAGEVPPQDRVIDGQDLL PLLLGTAQHSDEFLMHVYCER VLHAARWHQRDRGTMWKVHF VTPVFQPEGAGACYGRKVCPCF GEKVVHHDPPLLFDLSRDPSET HILTPASEPVFYQVMERVQQAV

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22552	52920	A	22680	185	2091	GSTERDNMLHLHHSCVCFRSW LPAMLA VLLSLAPSASDISASR PNILLMAIDDHGVGDIGCYGN NTMRTPNIDRLAEDGVKLTQHI SAASLCTPSRAAFLTGRYPVRS GMVSSIGYRVLQWTGASAGFT TNETTFAKILKEGYATGLIGK WHLGLNCESADHCHPLHHG FEHFYGMFSLMGDCARWELS EKRNVLEQKLNFLQVLALVA LTLVAGKLTLPVSWMPVWS ALSAVLLASSYFVGALIVHAD CFLMRNHTITEQPMCFORTTPLI LQEVASFLLRNKIHGPFLLFVSF LHVHPLITMENFLGKSLHGLY GDNVEEMDWMVGRILDTLDV EGLSNSTLIYFTSDHGGSLNQL GNTQYGGWNGIYKGGKMG WEGGIRVPGIFRWPGLPAGRV IGEPTSLMDVFPTVVRLAGGEV PQDRVIDGQDLLPLLLGTAQHS DHEFLMHYCEFLAARWHQ RDRGTMWESPTL*PPCVSSQEG AGACIVGRKVCPCFGEKVVVHH DPPLLA FDLSRDPSEHTILTPASE PVFYQVMERIVQQA VWEHQR TLSPVPMQLDRLGNWRPVMQ PCCGPFLCWCLEDDPQINVC SEKLEPRFLNFVTQIETNQLAM
22553	52921	A	22681	209	392	
22554	52922	A	22682	1	513	
22555	52923	A	22683	3	613	
22556	52924	A	22684	1	2115	

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22557	52925	A	22685	53	1966	VGQPRGLRRTLEKLTASVAGGA ANFFGDIERDLGPRDTSRGIRG GNLGDRCSSAEMAYASWQR WSPVEWARWMWTAVTSSGDS SLLVLQGDSDGKRSSDSEAFET PESTTPVKAPPAPPPPPPEVIPEP EVSTQPPPEPGWGSETVPVPD GPRSDSVEGSPFRTQAHFSGVF DEDQPIASTGTDILDFDNIELVD TFQTLEPRASDAKNQEGKVNT RRKSTDSVPISKSTLSRSLSLQA SDFDGAASSGNPEAVALAPDAY STESAKRVVPPASGGGRVQNSP PVGRKTLPLTTAPEAGEVTPSD SGGQEDSPAKGLSVRLFYSE DKSSWDNQENPPPTKIGKKP VAKMPLRRPKMKKTPEKLDNT PASPPRSPAEPNDIPIAKGTYTF DIDKWDDPNFNPFSSSKMQES PKLPQQSYNFDPTCDESVDPF KTSSKTPSSPSKSPASFEIPASA MEANA V DGDGLNKP AKKKKT PLKTMVEDVMSVCSLFDTRV KKSPKRSPLSDPPSQDPTPAATP ETPPVISA VVHATDEEKLAVTN QK WTCMTVDLEADKQDYQPQS DLSTFVNETKFSSPTEELDYNRF YEIEYMEKIGSSLPQDDDAKK QALYLMFDTSQSFVKSSTVR

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22558	52926	A	22686	662	2927	HLRRKRNLPRREGLSPALLEET PLEPAVGPKAACPLDSES AEGV VPPASGGKRCLFTTAPAEAGEVT PSDSGGQEDSPAKGLSVRLEFD YSEDKSSWDNQENPPPTKKIG KKPVAKMPLRRPKMKKTPEKL DNTPASPPRSPAEPNDIPAKGT YTFDIDKWDPNFNFPSSTSKM QESPKLPQQSYNFDPTCDES DPFKTSSKTPSSPSKSPASFEIPA SAMEANGVDGDLNKPAAKKK KTPLKTDTRFRVKKSPKRSPLSD PPSQDPTPATPETPPVISA VVH ATDEEKLAVTNQKWTCMTVD LEADKQDYPQPSDLSTFVNETK FSSPTELDYRNSYEIYMEKIG SSLPQDDAPKKQALYLMFDT SQESPVKSSPVRMSEPTPCSGS SFEETGSLRNTAAKNQ\HPVP TRDWAP*PRSHLAGCQRKSSQ E/VELGGPWGLGHFPQEGDLKF TASPRGSFASADALLSRLAHPV FSL/CGALDYL\EPNFRQKRNP LFAQKLQREA\VHPTDVS\SKT ALYSRIRTTVEKPAGLLFQQP DL\DSALQIARAEL\TKEREVSE WKDKYEESS\REV MEMRKNLA EYEKTIAQMIEDQREKSVSHQ TVQQLVLEKEQA\ADLNSVEK SLADLFRRYKMKVLESFRK NEEVLRKCAQEYLSRVKKEEQ RYQA\LVHA\EEKLDRANAEL
22559	52927	A	22687	374	1268	AETNMVWYDWMRPSHAQLHS DYMQLTEAKAKSKNKVRGV QQLIQRRLRIKSPA EIERMQIAG KLTSQA FIFTMFTSKAPVEEAFL YAKFEFECCRARGADILAYPPVV AGGNRSNTLHYVKNQLIKDG EMVLLDGGCESSCYVSDITRTW PVNGRFTAPQAELYEA VLEIQ DCLALCFPGTSLENIYSMMTLI GQKLKDLGIMKNTQ GK*CL/RR LLE/QYCPHHVGHYLGMDVHD TPDMPRSLPLQPGMVITIEPGIYI PEDDKDAPEKFRGLGVRIEDDV VVTQDSLILSADCP

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22560	52928	A	22688	329	1389	RIWKTQMMRRMKMMMMMM MMMRITTLFFQESQEAIFFFD LFPMPFCGCQCYSRVVHCSDLG LTSVPTNIPFDRMLDLQNNKI KEIKENDFKGLTSLYGLJLNN KLTKIHPKAFLLTKLRRLYLS HNQLSEIPLNLPKSLAELRIHEN KVKKIQKDTFKGMNALHVLEM SANPL**/SMGIEPGAF*RG*RC S/YIRIAEAKLTSVVPKGL/PPTLLE LHLDYNNKISTVELEDFKRYKEL QRLGLGNKKITDIENGLANIPR VREIHLGNKIKKIPSGLPKLY LQIIFLHNSIARVGVNDFCPTV PKMKKSLYSAILFNPNPVKYWE MQPATFRCVLSRMSVQLGNFG
22561	52929	A	22689	1	4608	
22562	52930	A	22690	1	465	
22563	52931	A	22691	1	1542	
22564	52932	A	22692	1	4226	EAVLCSSRRGRPDSSMPDCCRNA ALEARSCQSMSTLSFNTVSPTQ DGTSSLPRRQSSFAKPLRALY DLLIAPEGGGVVESTEPLGTSR SGFASGTALFWLGDNGKAASP PGVSVSSLENNEDNTQCNRLQ GYREAAVPDWTQDLALCLLPT LQSLKARTAPHLCVPSSCYKA WYTLAVSKVSGMVEGKAWIIL LLAASTHALLQRPQEGDITPL AGSRAAAVSCQARPFTSFGLM HSSGPVGRHRQLILVLE
22565	52933	A	22693	2	4197	ALDFPGRFRPTASFIWASVLF TIRHEAEVSTDYKLSLFDLTSS YQALQVRVLSLGHHDALAVA ERGRTRAFADLLVERQTGQQD SDPYSPVTIDQILEMVNGQRGL VLYYSLAAGLYSWLLAPGAG IVKFHEHYLGENTVENSDFQA SSSVTLPTATGSALEQHIASVRE ALGVESHYSRACASSETESEAG DIMDQQFEEMNNKLSVTDPT GFLRMVRRNNLFNRSCQSMST LFSNTVSPTQDGTSS
22566	52934	A	22694	1	618	
22567	52935	A	22695	1	3528	

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22568	52936	A	22696	85	1193	RPIEGQLGTCHPGSEPRTIRWRA PGKGLRLYTHPTSDIAGRTGA AASFAPLHLPREPRAGVDGTD AERILYPRRAAPAASGVGSRPA GEAVRADEAGAAAGLGGFQSER NRSWGGESLGSRQPKMPAFN RLFPLASLVLIY*VSVCFPVWGE VPLENGGRARANPMKLRICSI MKREEVEATTVVEWFYRPEGG KDFLIYEYRNHGHQEVESPFQGR LQWNGSKDLQDVSITVLNVT NDSGLYTCNVSRFEFEFAHRPF VKTTRLIPLRVTEEAGEDFTSV VSEIMMYILLVFLTLWLLIEMIY CYRQVSKAEAAQENAPGNSL EGGSQGLQINSTQDGLVTGQQ DVGSHRAREHMPDFEPPSAK
22569	52937	A	22697	277	527	VRVSWEYFCAPGAPGSPAGPG RGEKQRLGLLIRDARSPAPPG PPVGSVRG/PKPAPAGRVRKAG RRA*GAACSLAAGAWVEPGI

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22570	52938	A	22698	226	2268	SVKNTYKCHVRNEQICNKLTSCKSCSLNLCQWDQRQCEQCALPAHLCEGEGWSHIGDACLRNVSSRENYDNAKLYCYNLGNLASLTTSKEVEFVLDEIQKYTQKQVSPWVGLRKINISYWGWEWMSPPNTNTLQWLPGEPNDSGFCAYLERAAVAGLKANPCTSMANGLVCEKPVSPNQNARPCCKPCSLRTSCSNCSTSNMGECMCWCSSTKRCVDSNAYIISFPYGGCLEWQTATCSPQNCGLRTCGGCLEQPGCGWCNDPSNTGRGHCEGSSRGPMKLIGHMHNEMVLDTNLCPKEKNYEWFSIQCPACQCNHSTCINNVCCEQCKNLTGKGQCQDCMPPGYGDPNTNGGQCTACTCSGHA NICH LHTGKCFCTTKGIKGDQCQLCDSENRYVGNPLRGTCYYKTLIDYQFTFSLQEDDRHHTAIYFIVNPKQSNKNLHISINASNNFNLNITWPC*STAGTISGEETYIVSKNNILEYRDSFSYEKFNFRSNPNITFYVVSFNFSWPIKQIAFSQHNTIMDLVQFFVTFSCFLSLLL EAAVVWKIKQTCWASRRREQLLRERQQMASRPFASVDVALEVGAQEFTFLRPLEGAPKPIAIEPCAGNRAAVLTVFLCLPRGSSGAPPPGQSGLAIASALIDISQKASDSKDKTSGVRNRKHLSTRQGT
22571	52939	B	22699	252	360	
22572	52940	A	22700	1	84	
22573	52941	A	22701	1	404	
22574	52942	A	22702	86	292	NPEMRCREFCLPSCRPELALE*G*SVRDVA*AQMCSVVWAGRPLGFAA*S*GSGHSCGRCSIWGE CWG
22575	52943	A	22703	82	379	HTLQPFISMGS LTKMFKVISEGPM D*RPHPKVRPMT*HSTPAPANFMGHHFFWKIMICTDRTEVATLVAGVVS GASVGGKSPPYRK WNSPEPDVKGPRLV
22576	52944	A	22704	2	382	

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22577	52945	A	22705	1	479	HMPSGETAPLRIVDTGTGTGTV VAYAPTEVGLHEMHKYMASHI LESPLRFYVTTPTVPSVSA YGPG LVYGVAN/NTATFTIVTEDAGE GGDLAIEGPSKAEPRPRLSRA PGVDGAGASPLGEDTGPQAP GLQVLTERIPGPSAPTEFLSVG VSAVC
22578	52946	A	22706	1	590	
22579	52947	A	22707	171	406	
22580	52948	A	22708	269	2477	
22581	52949	B	22709	167	7472	
22582	52950	A	22710	1	520	
22583	52951	A	22711	2218	2472	
22584	52952	A	22712	722	1555	SRNWYEALNNTWGREDICVVD GWQSFRRQDYAF LQERGS GGD LWSSTLAQAMTLVESRPHRHQ ALSTQLLD AIMPYCGNTLR LGV TGTPGAGKSTFLEAF GMLLIRE GLKVAVIA VDPSSPVTGGSILG DKTRMNDLARAEEAFIRPVPSS GHLGGASQRARELM LCEAAG YDVVIVETVGVGQ/SETEVARM VDCFISLQIAGGADDLQGIKKG LMEVADLVINKDDGDNHTNV AIARHM/YESALHILRRPPMHR VPRNPKNLLPGTAMANLLS
22585	52953	B	22713	381	425	
22586	52954	A	22714	1	1185	
22587	52955	A	22715	1	3009	
22588	52956	A	22716	22	527	YEGIVMKPLIIVNPADCIGCART CEIVACVVAHPSEQLNADVFL PRLKVQRLDSAPVMCHQCEN APCVGACPVGALTMGEQVVQT NSARCIGCQSCVSACPFMITIQ SLPGDTRQIVKCDLCEQR*EG PACVESCPTQALQLLIERELRRV RQQRIVVTGENPL
22589	52957	A	22717	187	325	

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22590	52958	A	22718	1	2240	MRSDPDTSVNEIETKLSALLGS ETTGEILFDLLCANGPEWNRV TLEMKYGRIMLDTAKIIDQDV PTHILSKLTFTLRNHPEGVVVK NFEVLQPLQNSLSGLPLVWSE ILQQINQLTHYEPVIGIMGKTGA GKSSLCNALFAGEVSPVSDVAA CTRDPLRFRLQIGHEFMTIVDLP GVGESGVRDTEYAALYREQLP RLDLILWLKADDRALATDEHF YRQVIGEAYRHKMLFVISQSDK AEPTSGGNILSTEQKQNISRKIC LLHELFPQVHPVCAVSVRLHPV VALLQQFRTDDETRHYHYDS QHRLVDYTRTQYEEPLVESRYL YDPLGRRVAKRVWRRERDLTG WMSLSRKPOVTWYGWDGDR TTIQNDRSRJQTIYQGSFTPLIR VETATGELAKTQRRSLADALQ QSGGEDGGSVVFPPVLVQMLD RLESEILADRVSEESRRWLASC GLTVEQMOMQMDPTEGTTAW Y/AEYDEWGNLLNEENPHQLQ QLIRLPGQQYDEESGLYYNRHR YYDPLQGRYITQDPIGLKGGW NFIYQYPLNPISDIDPLGLSMWE VARQMNAIASKLPEGFHIGINFS ASHIISPTFVDECLNFRDSFTRR DLNLVLEVTERDLLNVDES LVQ RLNILHENGFIALLDDFGTGY GLSYLHDLHIDYIKIDHSFVGRV NADPESTRILDCVLDLARKLSIS

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22591	52959	A	22719	1	2301	MALTSGVHTGEKPYKCAQCEE AFSRKSELIHIIHTGEKPYECT ECGKTFSRKSQLIHHRTHTGEK PYCKTKCGKSFQQSHLIGHQR IHTGEQPYLGLSVAERPKEYED DRALKMAAPCGNSSREQPCCFL NKASEDAERAKPPS*EPGRLRT P*VAQPH*VPHFMATWVRKHP VHDRQFRLHGQIRELNWDVVR PEQFTGVA TNCSGITYPQGGWL CPAELTRNVLELAQQQLQIYY QYQLQNL SRKDDCWLLN FAGD QQATHSVVVLANGHQISRFSQT STLPVYSVAGQVSHIPTPELAE LKQVLCYDGYLTPQNPANQHH CIGASYHRGSED TAYSEDDQQQ NRQLIDCFPQAQWAKEVDVS DKEARCGVRCA TRDHLPMVGN VPDYEATLVEYASLAEQKDEA VSAPVFDDLFMFAALGSRGLCS APLCAEILAAQMSDEPIPM DAS TLAALNPNRLWVRKLLK GKAV KAG
22592	52960	A	22720	1021	1734	
22593	52961	A	22721	1247	2412	RRSHHAANLDIRIMPQTRQVT LPDPELHPDSTLSMWPDRRIAR DAHLYLYRDRHGRLTEKTDLIP EGVIRTDDETHRYHYDSQHRL VHYTRTQYEEPLVESRYLYDPL GRRVAKRVRRERDLTGWMS LSRKQVTVWYGWDGDRLLTIQ NDRTRIQTIIYPQGSFTPLIRVET ATGELAKTORRSLADALQQSG GEDGGSVVFPPVLVQMLDRLE SEILADRVSEESRWLASCGLT VEQM QNQMDPVYTPARKIHL HCDHRGLPLALISKEGTTEWCA EYDEWGNLLNEENPHQLQQLI RLPGQQYDEESGLYYNRHRY DPLQGRYITQDPIGLKGGWNFY QYPLNPVTNDPLGLEVFPRFPF LPFPWPKSPAQQQWYPTFCC
22594	52962	A	22722	1	4767	

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22595	52963	A	22723	668	1922	YPHADSPECWLSSSSERGKSSV TADLSRPRRLRPIPTCHGKPIAC TTTKAKNAFRPIAGASATGRLA NSPIIILPNAAIRQEFGITLDPEEV FTFQGVKLYEYRYPDCVRSRN EAGILVEQILSTLFSVGEHFLK RAPFFKVPSLRSFYAFGGLTTG VVRNRNGNIIGVNTTPARKIHLHYH CDHRGLPLALISKEGTTEWCAE YDEWGNLLNEENPHLQQLIR LPGQQYDEESGLYYNRHRYD PLQGRYITQDPIGLK/GGWNFY QYPLNPVQYIDSMGLASKYGH LNNGGYGARPNKPPTPDPSKLP DIAKQLRLPYPIDQASSAHNVF KTFFRALSPYDYTLYCRKWVK PNLTCTPQDDSQYPGMDTKTA SDYLPQTN/WVPSSIVSCTTGV VP*VVCQWVFAWPPDISHRRTG
22596	52964	A	22724	25	510	RITDFGVKKIIRVSGCGAVLPHV KLRDVV/I/GMGAC/TDSKYNRI RFKGQAFGGIADFAMGRATAVD PGKALGINARVGNLVSADLFYS PDGEMFDVMEKYGILGVEMEA AGIYGVAEFGAKALTICTVSD HIRTHEQTAAERQTTFNDMIKI ALESVLLGDKE
22597	52965	A	22725	415	759	HRRRIVDDTGIFRPRNTAQQLR QRPIAMSASGVVQIILEGHWRT HSLRNGFHRGRL*SSPKVGMQ HGSROVDHRTQRALRFFRQPGI DFLRPVFTPRRQRLAATNHFSR FVEH

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22598	52966	A	22726	2	2329	GTLPGCGAMHTCPSPGPATHLV RRRRVRLPACVVTRANVPTPSR PVNATIGAFHSG*MASQGRRLS AQYPWSPFQY A\ARPVPTVPGR LVFTGTSKAPKISVMGPGMGIP SCSISAKELITDFGVKKIIRVGSC GAVLPHVKLRDVIIGMGACTD SKVTRIRFKDIIAFAAIADFDMV RNAVDAAKALGIDARVGNLFS ADLFYSPDGEMFDVMEKYGIL GVEMEAAGIYGVAAEFGAKAL TICTVSDHIRTHEQTAAESQTT FNDMIKIALESVLLGDKEEDRVI RFGKARATRYALLRPYRGIERIP VWRVDDTGKAHKFADIRLCWP QGSCLDVAKAREVIRGSQPLPA WCENWAQEV DARLTKEAQA LRPVINLTGTVLHTNLGRALQA EAAVEAVAQAMRSPVTLEYDL DDAGRGRHRRALAQLLCRITG AEDACIVNNNAAVLLMLAAT ASGKEVVVSRGELVEIGGA FRI PDVMRQAGCTLHEVGTNTRTH ANDYRQADFQDDFVMAFTQN INGPTQNTRALHGGHKRPDFLP LLGAFHGAIDILAPGGLHGYSL PSSFFHALALSAAPGKRCKLS VHLPFWGLKDGGPLLTAPLGG ALVGIVGGVGGSNLTFPFHTNF LNVRFVIRRIHRIHHIFYRIAKL LMNGAQGSNMLIAAVAGVPHQ NGHFPFTVADRFAIVLSEGSIRV
22599	52967	A	22727	1	702	
22600	52968	A	22728	876	1318	RCHLANASPAAGSHAPSPDSL/ KIR/QEVG/PPLP/PLLA PLIATPP RTSQPLSLISSSSPSPASPVGQ VSPFRETPVPAMPSPWPEDPRR ASPPDPSPSAASASERVVPSP LQFCAATPKHALPVPGRLLPPCA SGHAMPCWRKIK

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22601	52969	A	22729	485	1455	PVVQRARNASSCQPFSTSVWAI PSISATSVPMCGATHSILSPKKS TVSDRIGSMQISFFPLSRSAEK* ESPCSSDAFHAIFSVLSGLALHS TTTSLCSSTSGQLVCC**TSLPPT TYGMIACAAPVE*SPRCPV*PPA SAI*RCNNVEALCSTPFERQP*E PAKISMPDHPHECVVVG*E PAPHPNSREQIHPAHECLAGFP VTQESLFAPLEIVPAYCCEPGRE PRSARSFPFAPREL T*VQLELGT GL*RETLDLVVSAGWA*ARRIS GAVTATPETGTLCQLDSGAECH YRETGVLEP**RSPRPVGHGSSR IISRRWRT
22602	52970	A	22730	814	5001	PENSSHRPKPIIPMIASLTINANQ NSVSPYKRTFTRLTALMIKKKA AAQIHVGTSGNQYWRKLD FNS PGGSSPVENS DCS TNSRLSFSPE NILIQNQDIVREA AVQGDGQKQ RQPQATDLDSSTHGSEMLPAT EVTVSGGFSVEETSCGDTGRSG GEALAVANDSTSTPQNANGLW KLKSTTPGGALPECFGTDTDTFS SAFCRKHGETQDTSQSSLPGLT HCYTGIREGGDDTEVESEAFSC SEGSEQQDAPD
22603	52971	A	22731	34	102	
22604	52972	A	22732	584	893	QKLLPNRMGHPVFKSSQDPV LLSRIA WKDASTVTWVIEQDPV LRRRRRTTRRRRTRMRRRRGR* */SKRRRMR/GRRRGR*CRRRRR RSSRSRPTRRQRNRNQV
22605	52973	A	22733	2	269	IGKLYWFMPPSANLALREL GIV LFLSVVGLKSGLSWIGYGALIT AVPLITVGILARMLAKMNYLT MCGMLAGSMTDPPA*PRFQTN DREEQHDPQLPQREVGA WRHK PVQLAD

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22606	52974	A	22734	3	958	RCYSLLSRAPHPGIYISIAERV*IRLNSANFTLNSLLPAEKKLAEEFAVSRMTIRKAIDLLVAVGLVVRRHGSGTYLVRKDVHLHQTASLTGLGEVLKRQKTVTSQVLIFEIMPAPPAIASQLRIQINEQIYFSRRVRVIEGIPLMLEDSPMPVKLFRNLSQLHLEGSKFYIEQECGILIGGNYESLTPVLADRLARQMKVAEHTPLLRLITSLSYSESGEFLNYSVMFRNATQIQGWRSHFRRLHPKKSLTVPPEAPPVFGGLIMRKNHSQRIDSGVRERRRTAGWMKHSKRQRRRIGHGTCQHPAHGQVIHFG
22607	52975	A	22735	2	285	GDEMTTSTLQKAIDLVTKATEEDKAKNYEEALRLYQHPVEYFLHAIKYEAHSDKAKESIRAKCVQYLDRAEKLDYLRSEKHEHGLCLKDRVT
22608	52976	A	22736	545	791	NHKAIDLVTKATEEDKAKNYEEALRLYQHAVEYFLHAIKYEAHSDKAKESIRAKCVQYLRYAEKLKDYLRSEKHEHKKPKVKENQSEGKGSDDSDSEGDNPEKKLQEQLMGAVVMEKPNIRWNDVAGLEGAKEALKEAVILPIKFPHLFTGKRTPWRGNLLFRPPGTGNSNRPKAGAPKATNSTFFSVSSDVKSKRLGETEKL*NLFLRLARQHKVPSIIFIDEVDSLCSGRNENESQAARRIQNGSSLVQIAGGLGINNDGDSGFFGATNIPWVLD/SAIRKRV*KTGFYIPLPEKACPRPDVSRHLHGLSTPHNLRVATFHKLARKTEGYSGADISIIVRDSLMMQPVKRVQSATHFKKVCGPSRTNPSMMIDDLTPCSPGDPRAMEMTWMDVPGDKLLEPVVCMSDMLRSLATTRPTVNADDLKVKKFSDFGQES
22609	52977	A	22737	249	1574	
22610	52978	A	22738	52	567	
22611	52979	B	22739	1	1293	
22612	52980	A	22740	443	1027	
22613	52981	A	22741	2077	2430	
22614	52982	A	22742	1	504	

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22615	52983	A	22743	3244	3947	RNEITPFRAMMIIRMAHRFQT EEIKRISFIKRRVGNKDEINPGA RWRRFHDDGITFLRLLDAGLTI PSGKTIVHPLARQRRGLVKIQFL R*LLAKLTRQPLPLQPVTARL CLNPRLRRQRKIRMPAGTKWQ RLCPLIGDR*RHRQRSVAVYALS VRHNPVHHILRKNGDMYSFPIT IGNNVWIESHVVINPGVTIGDNS VIGAGSIVTKDIPPVVVAAGVP CRVILEINDRDK
22616	52984	A	22744	742	1158	
22617	52985	A	22745	439	2882	PDWQAFQSPPEFASLIHPKPAK LPGWLQVQWSLLAITRTPTPV RWAQQTETVGLVVGVDSDPF FGAMVKAVEQVAYHTGNFLLI GNGYHNEQKERQAEQLIRHRC AALV VHAKMIPDADLASLMKQ MPADKQCESIPDQNNQTGTQY PRGKEPKLLRRLMHMNRKVGP RGPRRMLLRYLDVEFLSVALA VVHLGPQGTCSRFLVARALV VAVSEMDKSLSAQAQYFASN GPVPDLAYQVDFPRLEIGL*F/E YVDTGAETTLVPGDVLYVPAG GWNFPQWQAPATTFSVLFGKQ QLGF/SAVVQWDGKQYQNLAK QHVARRGPRIGSFLLQTLNEMQ MQPQEQQTARLIVASLLNHCR DLLGSQIQTASRSQALFEAIRDY IDERYASALTRESVAQAFYISPN YLSHLFQKTGAIGFENENLSHTR LGHA*TLKGVDLKVKEVAHA CGFVDSNYFCRLFRKNTERSPS EYRRHRRLHDNRICQFKTPTDN PENPDRLYTLFRIDKETSSLPKK VAPSCKRLSVSRSSPKPSISIRRC MRLMLIEGRSSFIHPDKDVDG FHPYNVGRLCQRAPRLRPCTPR GIVTLLERYNIDTFLNNAVVIGA SNIVGRPMSMELLAGCTTTVT HRFTKNLRHHVENADLLIVAV GKPGFIPGDWIKEGAIVMMSGI NRGVATDASCFLVPFANRVSG
22618	52986	A	22746	2	126	
22619	52987	A	22747	1	465	
22620	52988	C	22748	78	308	

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22621	52989	A	22749	1	2797	MEHPPVLAVQRVALPSRSSEPE LFLNPPTDEETEAHRGMYLDQ GPRTKDWIPVAPGVREPSPLGP GPSSLWLLVVGTVVEEGSRKH RPTCKKDFTKSKTVDAQPTLCA RHQMLNIQFLISDRDPQCNLHC SRTQPKPICASDGRSYESMCEY QRAKCRDPTLGVVHRGRCKDA GQSKRLERAQALEQAKKPQE AVFVPECGEDGSFTQNTSCIHSS VYQIGENSSLTFLEKREESGHL QRDWFLWFRKARVI
22622	52990	A	22750	1	5295	MNLNQEEIPDLPEKEFRRLVIKL IREGLEKGAQCKEIQKMIQEV KREIFQIEISLKKKPPKIQTLDI LLKMQNALESLSDRTEQAEEIN SELEDKVFKLTQSNKDKEKTR KYEQSLQEVWSYVKRPNLRIIG VPEEEENTKLENILGGIIEENFP SFARDLDIQIPEAQR TTGKLIK RSLLRHIVFRLSKVKMERILR AVRQKHQATVSQKNKAGGITL PDFKLYYKATVSQKNKAGGITL PDFKLYYK
22623	52991	A	22751	1	891	GSPFEVMPRDDVFFIVDKI*DI GVYSCTAQNSAGSISANALTIV LETSPFLRPLLDRTVTKGETAV LQCIAGGSPPKLNNWTKDDSP VVTERHFFAAGNQLLIIGDSDV SDAGKYTCEMSNTLGTGRGNV RLSVIPTPTCDSPOMTVL/HLLD DDGWGHGCLYVILAVVCCVVG TSLVWVVIIYHTRRRNEDCSITN TDETNLPAIDIPSYLSSQGT LADR QDGYVSSSESGSHHQFVTSSGAG FFLPQHDSSGTCHIDNSSADVE AATDLFLCPFLGSTGPYVFEGK CVWAQNPF
22624	52992	A	22752	1	2947	MSAPSLRARAAGLGLLLCAVL GRAGRSDSGRGELGQPSGVA AERPCPTTCRCLGDLLDCSRKR LARLPEPLPSWVARLDLSHNL SFIKASSMSHLQSLREVAGNRIV EILPEHLKEFQSLETLDLSSNNIS ELQTAFFALQLKYLELNRNKIK NVDGLTFQGLGALKSLKMQRN GVTKLMGDAFWGLSNMEILQL DHNNLTETKGWLYGLMLQE LHLSQNAINRISPDWFEFCQKL SELDLTFNHLRLDD
22625	52993	A	22753	2	417	

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22626	52994	A	22754	1	262	VLDIGS/SLTVPDEFKQE/RADGMWWKQLVAGAVAGAVS/RTGTAPLDRLKVF MQIKRAILGQQETLMCRSASWLAPWLVPQPNHHLPGY
22627	52995	A	22755	1	762	
22628	52996	A	22756	1	1527	RLAAAGADPAGSRGGRGSREA PTEAARCRASPPPRAGAMRGSP GDAERRQRWGRLFEELDSNKD GRVDVHELRLQGLARLGGGNPD PGAQQGISSEGADPNPGLDLE EFSRYLQEREQRLLLMFHSLDR NQDGHIDVSEIQSFRLGISIL LEQAEKNFAQA/VDRDGTMTID WQEWDRDHFLLHSLNVEDVLY FWKHSTVLDIGECLTVPDEFK QEKLTMWWKQLAAGAVAG AVSRTGTVPDLRLKVF MQVHA SKTNRLNILGGL*SMVLEGGIRS LWRNGINVLKIAPESAIKFMA YEQIKRAIPG/E*ETLPVLERFVA GSLAGATAQTIIYPMEVLKTRL TLRRTGQYKGLAGLRGGILER EGPRAFYRGYLPNVLGIIPIYAGI DLAVYETLKNWWLQQYSHDS ADPGILVLLACGTISSTCGQIAS YPLALVTRMQAQSIEGGPKL SMLGLLRHILSQEGMRGLYRGI APNFMKVIPAVSISYVVYENMK

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22629	52997	A	22757	1	2127	MDQSGLLALRAAVGAVVGSTL AVDIGLVKDWHPRLGGKHC QLLGAFRCRQHRRGKEERRGE TKEKKGERENERGKRRRIEGER DKYVKENEKQTCVQKERHSCT GNSPNHMATVQAERGALDSHG GWHPWDYCAVQGGRYHQLLL TKEEIEVQSRKKMCLLQAFLIC CQKSHFLGPGCTRSMVPASASG ESLKLPLMVEDEGEPPVTERER KREGERERGERERRRRRKRK RRRKRKRKRKRKRKRKR*EFLS LG*NERGKRRRIEGERDKYVKE NEKQTCVQKERHSCTGNSPNH MATVQAERGALDSHGGWHPW DYCAVQGGRYHQLLLTKEEIE VQSRKKMCLLQAFLICQKSHF LGPCTRSMVPASASGESLKL PLMVEDEGEPPVTEREQEGGGE RERERERKKEKEKEKEKEKEE EKEKEKEEERIVPLPRVELRLT NIAAKQVGNLTLDVAAADPHS ESSCVYVRFVIKIPVAAAFRFKK SYVTNNVESCEDGIHYFWKSH MHSENSCCKLPCPPHLPAAER LGDALPLPTMRRQRQCQNT GDCDGRRIQGTRETMHRDTS LVAVKTVQDTSREGMGEVEPN CFWRDTHMASGVGAFAELPH DGTCDCEPDEAPGAEEVCREC GFCYCRRHAEHRQKFLSHL AEYVHGSQAWTPPADGEGAGK
22630	52998	A	22758	348	881	WRQPRWPHHQAQLWQRAGSS YSQHKDPHFTSFSTPRAVQNF GFPCFFLRETTTLVLIPSVPLTDP GSFYRAWFSQCGRSPRPLGR TLSQKFLRLRGRPRPYMSTL TPF*STRIFERAFQVMGAESGG RIEKTTLCKRSLGPLMEPRV
22631	52999	A	22759	1	347	MVPASASGESLKLPLMVDER EPVTERE/REKGRGREGERERE KEREGERERERGERKGERER RRG*QPPFHNRFSEGGGRSFLCS RRPRVSRRGHTSRGPARKAAE RRGLG
22632	53000	A	22760	145	258	PENGLIGLS*KIVLSLNPVNEN DMKVDEVLYEDSSTA

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22633	53001	A	22761	1	1479	MALKEIFCPVRETETCTINCGTR ISPSILHVLGPYPSTPNVPERE GCGGGVSGNSKQPGALETAESI GKKEGRREESRPESASSLSLLL SLAYDVKSAQICTRIHSSVPLE AVYPGYIHQSINQADLSALAPY DPCVCQIHKYHGAYNCLQYSV QNTLYSPTTEQYKRCQAPWVL PAIFTIPASGAAASAVPVRAQA QGGQAAGQRRRLATAPLTGEG EPDHGDRTRAGSQGPEARPRIH LGAARGGDRTRGRPRRRGRDW TRLGREMAAAVSSAKRSLRG ELKQRLRAMSAEERLRQSRVLS QKVIAHSEYQKSKRISIFLSMQ DEIETEIIKDIQCRGKVCFPVP RFSRAITMDMVRIGSPENGFN FPKTSWEYSLRLGEGDVREEG LVPPGGI/EILILPCPQALGLDQ NHGQPRLLGRQGAYL*CLS*K RLFCSHSGKLPPTPPGGWLFK EQICPPRSPVNENDMKVDEVL
22634	53002	A	22762	1	813	
22635	53003	A	22763	1	368	
22636	53004	A	22764	327	4281	SASASRCDPGSGSRREEREELQ WRRRRRRRRRRRRRRRQQRRA AAPAAPAGGIEAVNMASASYHI SNLEKMTSSDKDFRFMATND LMTLEQKDSIKLDDDSERKVV KMILKLLLEDKNGEVQNLAVKC LGPLVSKVKEYQVETIVDTLCT NMLSDKEQLRDISSIGLKTIVIGE LPPASSGSALAANVCKKITGRL TSAIAKQEDVSVQLEALDIMAD MLSRQGGLLVNFHPSILTCLLP QLTSPLAVRKRTHA
22637	53005	A	22765	2	271	
22638	53006	A	22766	299	451	IVALFRSLVRHIRGTMAMESTA TAAVAALVSADKIEDAPAPST SADKVES

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22639	53007	A	22767	1	1122	MA TESTATAAIAAELVSANKIE DVPAPSTSADKVERIENGVLGN TLDGVHVHEEEGEKTEDESLVE NNDSIDEAEARKELREQVYDSM GEKEEAKKTEDKSFAPKPTDKE QDCEMEKGGRDMDISAEAEPP QEKVDLTGLGWLTEISEGAKGG GAPEGPNEAEVTSKGPEQEVDP VEEEKSVSETDVQKECKREKGG WEKHREVIIVSIEEKPKVSEEQP VVILEKQGTAVEVAEESLDPTV KPVVDVGGDEPEEK/GTVPGLR PSPCRDPLPAGLGLWVQLSV** GSGTVQQIY*SH*EENGCTKRA GEGG*RIVC*IQERN*GTGTAT RNYRKDRCKGVSDYWECS*T GSESYSGGELVYFRFHS*WRRLF
22640	53008	A	22768	223	339	
22641	53009	B	22769	341	496	
22642	53010	A	22770	12	1099	VSGVNPCLFFSQALFRSLVRHL RGTMAESTATAAVALVSA DKIEDVPAPSTSADKVESLDV DSEAKKLLGLGQKHLV/MGDIP AAVNAFQEAASLLGKKYGETA NECGEAFFFYG/KSLELARM NGVLGNALGVHVHEEEGEKT EDESLENNDNI/D*N*RLGRG* *RK**D*RNAK*FSP*KQVSSRK *GGGDWEPRACLGAGFSKDH F*KARNKRSTALCCPGTS*TRRS *C*I*KLCASC/GGVVPLP*PTGP VPGSPRPSPCRDPLPAGLGLWV QLSV**GSGTVQQIY*SH*EQNG CTKRAGEGG*RIVC*IQERN*GT KGTATRN*REDRRCKGVSA*W ECS*TGSESYS

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22643	53011	A	22771	11	2485	VSGVPNCLFFSQALFRSLVRHL RGTMAVESTATAVAADVVS ADKIEDVPAPSTSADKVESLDV DSEAKLLGLGQKHLVMGGIP AAV\NAFQGAASLLGKKYGET ANE\CGEAFFFYG\KSLLLEARM ENGVLGNALGVHVEEEGEEK TEDESLENNDNIDEEAREELR EQVYDAMGEKEEAKKTEDKSL AKPETDKQDSEMEKGGREDM DISKSAAEPQEKVDLTLDWLTE TSEEAAGGAAPGPNAEVTS KPGQ\EVPDAAEEKSVSGTDVQ EECREKGGQEKQGEVIVSIEEK PKEVSEEQPVVTLKQGTAVEV EAESLDPTVKPVDVGGDEPEEK VVTSENEAGKAVLEQLVGQEV PPAESPEVQTEAAEASAVEAG SEVSEKPGQEAAPVLKPDGAVN GPSVVGDTPIEPQTSIERLTET KDGSGLEEKVRAKLVPSQEETK LSVEESEAAGDGVDTKVAQGA TEKSPEDKVQIAANEETQEREE QMKEGETEGSEEDDKENDKT EEMPNDSVLENKSLQENEEEL GNLELAWDMLDLAKIIFKRQET KEAQLYAAQAHLKLGEVSVES ENYVQAVEEFQSCNLQEQYL EAHDRLLAETHYQLGLAYGYN SQYDEAVAQFSKSIEVIENRMA VLNEQVKEAEGSSAEYKKEIEE LKELLPEIREKIENAKE\SR\SG
22644	53012	A	22772	52	161	FQNPGLY/CDTEYNRLQKQK TEKTKQKKTQFHPICN
22645	53013	A	22773	3	115	FFQNPGLY/CDTEYNRLQKQK TEKTKQKKTQFHPICN
22646	53014	A	22774	229	358	
22647	53015	A	22775	257	386	
22648	53016	A	22776	259	294	
22649	53017	A	22777	217	398	KAWWNLLRKSEPKSCGS*GGL STSRLRVCSPLGLGYCG* [*] L CHLQEPHYGSLHRMSS
22650	53018	A	22778	1	3386	

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22651	53019	A	22779	391	2100	SRRTAGVRLDILCKDPIMWVSA DGHSYQPQYPKAKRATEFHFF NFKALLARAAVGAARGIHHRC GLTKRPDARRRRVAGA QGREP AISLPGDRAAGARATRTRGPGP APKMPAIAVLA AAAA WCF L QVESRHLDALAGGAGPNHG/NF L/DNDQ/WLSTVSQYDRDKY/W NRRFDEVEDDYFRNW/NPNKPF DQAL/DPSKDPCLKVKCSPHKV CVTQ/DYQTAL/CSVRKHL LPR QKEWGTWQKHWGLDL*ILV KICKPCSRGRSSAMGLAGSDGP LLTAFQVANLEFHACSTGQK/S FATLCDG/PCPCSSQSLEPPKHK GRKGVPCTDKELRNLA SRLKD WFGALHEDANRVIKPTSSNTAQ GRFDT SILPICKDSLGMFNKL DMNYDLLLPSEINAIYLDKYE PCIKPLFNSCDSFKDGK PFLNNE WCLLP SQNP GGLP/CAQNEMNR IQ/KLSKGKSLLAGFIPRNEEG YYKATQCHGSTGQCWCVDKY GNELAGSRKQGA VSCEEEQETS GDFGSGGSVLLDDLEYERELG PKDKEGKLRVHTRAVTEDDED EDDDKEDVGYIW
22652	53020	A	22780	2	441	HGVQGAGCGEVA AVSIELGAG GPVWRAAPRAC SRLQLLRGFG LEGQWFGESCRRGAS*EGSTR *PPRRQPWPEWVMSWVPET REPARISPAPAKQN*PPAPKSP AAPA/QAAVAATPSPPGEISEA WDSLESFSKPAFFSQ
22653	53021	A	22781	3	121	

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22654	53022	A	22782	2	1488	FVNNMADGEEPEFKRRRIEELL AEKMAVDGGCGDTEWTKDR WNHVKK/FLERSGPFTHPDFEP STESLQFLLDTC/VLVIGAGG LGCELLKNLALS/GFRQIHVID MDTIDVSNS*IRQFLFRPKDIGR PKAEVAAEFNDRV/PNCINVV PHFANKIQDFN/DTFYRQFHIV CGTGTLSCARRWINGMLISLNLN YERMVS*DPSSIVPLIDGGTEGF KENARVILPGMTACIECTLEL YPPQVNFPMCTIASMPRLPEHCI EYVGMQLQWPKEQPFGEVPL DGDDEPHIQWIFKSLERASQY NIRGVTYRLTQGVVKRIIPAVA STNAVIAAVCAT*/EVFKIATSA YIPL*ITWVFNDV/DGLYTYTTE GRKGK/ENCPACISQLPQNISVF LHQAKLQ/EVLGIILTNASLQN EILPAITATLGGEKIGTLYLQSV TSNEERNRANFFQTIERNWGLL DGPKTGRLLDVTTPTQTVLFQTS ILLKKGKSPT
22655	53023	A	22783	1	1719	
22656	53024	B	22784	199	460	
22657	53025	A	22785	226	1620	NGSGLALATGNRDPGLCPLSAP SCPWR*KSAGASTQQAYSQSQ /HPAYHRITPTLTNFALRLYKEL AADAPGNIFFSPVIS/TLCLLC LGAQANNALILEGLGFNLITET PEADIHQGFRLSLHLTLVLPSPKL ELKVGNSLFLDKRLKPRQHYFD SIKELYRAFAFAHFTDSVTTGR QINDYL*RRTYWPGVDLPFRS/L ARDTFMVLN/NFILFSKAKVKA TLSSRVDPKSRPVFLVDERTSF QVPMMHQKEMHRLYDQDLA CTVLQIEYRGNALALLVLPDPG KMKQVEAALQPQTLRKWGQL LLPSLLDLHLPRFSISGTYNLEDI LSPNWFSPITYTLNKJITLSQSVG G*LNKSISKVSHKSMVDMNEK GDQRPGLLQASSPSPHL*/YTMS DPHAHFNRPFLLLLWEVTTQSL LFLGKVVNPPVVWVTMVGQGE LSYLILDQTRPEPACILGLLCG
22658	53026	A	22786	64	288	
22659	53027	A	22787	1	1923	

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22660	53028	A	22788	309	2286	CAVCHISFQDTPVLVSSNVTMQ FGSKPLFENISVKFGGNGRYGL IGANGSGKSTFMKILGGDLEPT LGNGSLDPNER\IGKLRQ\QDFA FEFTVLDTVIMGHKEL\WKVK QERDRIYALPEMSEEDGYKVA DLEVYKYGEMAGYSAEARAGEL LLGVGIPVEQHYGPMSEVAPG WKLRLVLLAQLFADPDILLDE PTNNLDIDTIRWLEQVLNENNS TMIHSHDRHFLNMVCTHMA LDYGLRVYPGNYDEYMTAAT QARERLLADNAKKKAQIAELQ SFIDKIKLEEKASSRQNPFI QDKKLFRLNALEVEGLTKGFDN GPLFKNLNLLEVEGEKLAVLGT NGVGKSTL\KLT\VGNLQPD TVKWSENARIGYYAQDHEYEF ENDLPVFEWMSQCKQ*GDDEQ AVRSIFGRLLFSQDVIKKPAKVL SAPFCKDSILEAIDAGIKLIITTE GIPTLDMLTVKVLDEAGVRMI GPNCPGVITPGECKIGIQPGHIH KPGTGELNITTGIVKARDTQIA LNDKSKGDVRVDQNSLLET NMYVGTSGTGTLTLTNGTLN VEGGEVYLVGFEPVGTNLNIGA AHGEAAADAGFITNATKVEFG LGEGVFVFNHTNSDAGYQVD MLITGDDKDGKVIHDARHTVF
22661	53029	A	22789	1	553	
22662	53030	A	22790	1633	2207	ILFFDKGMPAQTPSLQKRWEK M*LVLW*GDREGIKAI/SEESW GARAPIFLLR/MMEDQGLYSIR MGGARGLPKSLAL*GAGRGP YSGERTWTLSLPSGNCAPYQR GGWWYHACA\HSNLNGVWHH GGHYRSRYQDGYVWAEFRGG AYSRLKAAMPHLAPEAVTLCSP GPLGRGHWSAGAPSCSGHTFF
22663	53031	A	22791	34	210	AAADPLRLHRRGAFIKAGRHA G/PSLPVCLQATAH*MDLARLA LVLVVRTSASTKSSTRE

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22664	53032	A	22792	397	1168	LLSRISKVSSKLPVRGGAGSLCT GDQRKVRKFLVETVELQISLKN YDPQEQQSFAFGHPSRL*VVPSP PLSSLVCLVGGPSKHL*RRLRP VGYPTMDIEGA*KKLNQELKN LVKKAGPRKYDCVFWPQESLD SSKIPPNPSGPGFK*RAKGVFPF CLTHNGKHGLAQSGIEVEVPT/ LSFQMKKG VYVWVA VAVWSRE R*QTNELVYNIHLACQLSWVSL LKEKNWQ\NVPGYIKSTMGO SPSSILRHIRINSITS
22665	53033	A	22793	1	377	SVSRVPTRSLRTSTWRLAQDQT QDTQLITVDEKLDITLTGVPEE HIKTRKVRJFVPARNNMQSGVN NTKKWKMEFDTREWRWENPLM GWASTWSYDIEERKVPKPKSK SYGANFSWNKRTRVSTK
22666	53034	A	22794	183	368	
22667	53035	A	22795	3	623	ILAFACSKMAAVMSVVLRTQ LWRRRAVAVAA\SVSRVPT/R RSLRTSTWRLAH\DTQDTQLI TS* ² KIGISLTFNWPFPPEHIKNL EKSQIFVPCSPITCQSGVNNTK\ KWK\MEFDTREWRWENPLMG\ WASTGLIPLSNMVLNLPLVKE DAVS\FAEK\NGWELWTLEERK\ VPKPKSQVFMGANFS\WNKRTR VSTKIGLALTSPA
22668	53036	A	22796	1	798	MNKVNPTQDQKEDHPELIITSIG DKRQLTLEAASGVCHRGQTQR VKEESKKFLISMFRGGKPVHK VVERACVCTCLHHTSVPAATHN TQRRHTTPTTRKNRGRKRGKK EREKRRKDREHNTGRRTKRKKT RNIGGRTQKQKQKQSEDKARR EPGGGRKQGRGREDGTRQRRG GRTRNREEGAQRGRNGR/RGEG RRTEETHMA* ² APDITATQQT EQGHGTRQRDITLRRHTAEDA QPSEHASADQAHTKKTE*SVSR TNGQYLLT
22669	53037	B	22797	85	322	

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22670	53038	A	22798	165	4733	AATALLTHGQEEGQVEGQDED IPPITCVQNGRLRYHDRVWKPE PCRICVCNKGVLCDDEVICDET KNCPGAEVPEGECCPVCPDGSR VTHRPKKPPGVGEPKGDTPPPR PKGTGPPPPGRDGPQGPLPGP PGPPGPPGPPGLGGKLLPKLSY GYDEKSTGGISVPGPMGSPGPR GLPGPPGAPVSIQDVIFCLGLW SFGGKTGMRAGEMLRDLLGPQ GFQGGPGEPPGASGPMGPRG PPGPPKNGDDG
22671	53039	C	22799	88	392	
22672	53040	A	22800	37	293	
22673	53041	A	22801	55	1917	GGGGVRRRRGTRRSEPGDSRSA MAPIGLKAVVGEKIMHVDVKK VKKKGWVKLVVDQLSMRML SSCKMTDIMTEGTTIVEDINKR REPLPSLEAVYLITPSEKSVHSLI SDFKDPPTAKYRAAHVFTDSC PDALFNELVKSRAAKVIKLTETI NIALFPYESQVSLDSADSFQSF YSPHKAQMKNPILERLAEQIAT LCATLKEYPAVRYRGEYKDN ALLAQLIQDKLDAYKADDPIM GEGPDKARSQLLILDRGDPSSP VLP* *LFQMSY*SCLP ENDV YKYETSGIGGGHGVKGGASGT EDDDLWIALRHKHIAEV/SQE VTRSLKDFSSSKRMNTGEKTT MRDLSQMLKKMPQYQKELSK YSTHLHLAEDCMKHYQGTVDK LCRVEQDLAMGTDAEGEKIKD PMRAIVPILLDANVSTYDKIRJIL LYIFLKNGITEENLNKLIQHAQI PPEDSEHTNMAHLGVPIVTDST LRRRSKPERKERISEQTYQLSR WTPIIKDIMEDTIEDKLDNKH PYISTRSSASFSTTAV/SARYGH WP*GTRPPGEYRSGP/RVFIIFHP LGGVSLNEMRCALRR*PRANG KWGGA**GSTHILQPHRNLPGH

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22674	53042	A	22802	46	1931	GGGGVRMLCGTRRSEPGDSRS AMAPIGLIAVVGKIMHDMIL NDLNMGEWKALLVDQLSMRM LSYCCLMTDIMTEGIVEDINK RR*PLPSLEAVYLITPSEKSVHS LISDFKDPPTAKYRAAHVFETD SCPDALFNELVKSRAAKVIKTL TEINIAFLPYESRVYSLDSADSF QSFYSPHKAQMKNPILERLAEQ IATLCATLKEYPAVRYRGEYKD NALLAQLIQDKLDAKADDP MGEKDPKARSQLLILDRGFDP SPVLHELTFQAMSYDLLPIEND VYKYETSGIGEARVKEVLLDED DDLWIALRHKHIAEVSQEVTRS LKDFSSSKRMNTGEKTTMRDL SQMLKKMPQYQKELSKYSTHL APCLRTCMKHYYQGTVDKL/CR V/EQDLAMG/TDAEGEIKDP MRAIVPILLDANVQTY*QIRIILL YIFLKNKGITEENLNKLIQHAQIP PEDSEIITNMAHLGVPIVTDSTL RRRSKPERKERISEQTYQLSRW TPIIKDIMEDTIEDKLDTKHYPI STRSSASFSTTAVSARYGHWHK NKAPGEYRSGPRLIIFILGGVSL NEMRCA YEVQTANGKWEVLIG STHILTPTKFLMDLRHPDFRESS RVSFEDQAPTME
22675	53043	A	22803	2	51	
22676	53044	A	22804	236	451	LHLPLFLGAIRSGQYGLWNLFR VLGWTCSLGIYLGWRVS*NFG RGTKALKVLSTIS/E*RNHHCHP *NNIFVY

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22677	53045	A	22805	3	1173	GAGAPAAGQAGLTSTSAVRAR PVSPARQSQDPAASLSLHLSLPP APGAGCARWRRRGPPQAAAMAA GAGAGSAPRWLRALSEPLSAA QLRRLEEHRYSAAAGVSLLEPPL QLYWTWLLQWIPLWMAPIISIT LLGLAVNVVTTLVLSISCLTAT EEAPYWTYLLCALGLFIYQPLD AIDGKQARRTNSCSPLGELFDH GCDSLSTVFMAVGASIAARLGT YPDWFFSRSFYLGCLVFYCAH WQTYVVS/GMLRFKGVDVTEIQI ALVIVFVL/SAFG/GATM/WGD YTIPILEIKLKILPVLGFLGGVIFS CSNYSHVILHGGVGKNGISTIA GTSVLSPGTPH/MGLIILAIIMY *KVRQLMVF*KSIPCL*YPQCLG CVFAKVVSQKISGSSHDQK
22678	53046	A	22806	2	1091	CPGRRRRRRPGRSRARATALPT PGPRKRGGPAGRKRRPERCASS SSGSSSSGDEDEGLLEDGAPGR GKRAAQPVAAAGKVGGAUVVV AEPEHTKKHVKLETLITTEGK LWSWGRNEKAQLGHGDTKRV EAPRLTEGLSHEVIVCVTCARNH TLALTETGSVFAFGENKMGQL GLGN*TDVPSPVQIMYNSLPIT KMA/CGYGLWGYTEQKDEMV PRLVKLFDFFPGHGASQIYAGYT CSFAVSEVGGFFWGATNTSHE STMYPKAVQDLCWRIWSLAC GKSSIIVADESTISWGSPSPTFG ELGYRDHKKSSSTAQAEVKTL HGIFSEPVAMGYSHSLVIARDE SETEKEKIKLPEYSPQTL

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22679	53047	A	22807	1	1409	MSLGLASERLWAGLGLPALPL ADEGGEGCETLFVWRSQKLEFG SKCKGQLLIFGATNWDLIGRKE VPKQQAAYRNLGQNLWGPHR YGCAGVVRVTVVSGSCAAHS LLITTEGKLWSWGRNEKGQLG HGDTRKVEAPRLIEGLSHEVIVS AACGRNHTLALTETGSVFAFGE NKMGGQLGLGNQTDVAFSPAQI MYNGQPITKMACGAEFMSMIMG LQKRLPLFWGALNMGQLGTQL RMGKFHSPGAQRIEYDCELVPR RVAIFIEKTKDGGQLPVPNVVVR DVACGANHTLVLDQSKRVFSW GFGGYGRLGHAEQKDEMVPRL VKLDFDFPGRGASQ/SCWL/HTC SLCCQ*NGWSVFLGGHQLP*I YHVPQKQCRSTAAAGESGTLAC GKSSIIVADESTISWGPSPFTG ELGYGDHKKPSSAAQEVKTL DGIFSEQVAMGYSHSLVIARDE SETEKEKIKKLPEYNRTL
22680	53048	C	22808	277	518	
22681	53049	A	22809	2	192	
22682	53050	A	22810	1	2946	MAEAGLRGWLLWALLRLAQ SEPYTTIHQPGYCAFYDECGKN PELSGSLMTLSNVSCLSNTPAR KITGDHLLILQKICPRLYTGPNT QACCSAKQLVSLASLSITKAL LTRCPACSDNFVNLHCHNTCSP NQSLFINVTRVAQLGAGQLPAV VAYEAFYQHSFAEQSYDSCSRV RVPAATLAVGTMCGVYGSA CNAQRWLNFGQDGTGNGLAPLD ITFHLLPEGQAVGSGIQPLNEGV ARCNESQGGDDVATCS
22683	53051	A	22811	258	362	
22684	53052	A	22812	1	4038	MAEAGLRGWLLWALLRLAQ SEPYTTIHQPGYCAFYDECGKN PELSGSLMTLSNVSCLSNTPAR KITGDHLLILQKICPRLYTGPNT QACCSAKQLVSLASLSITKAL LTRCPACSDNFVNLHCHNTCSP NQSLFINVTRVAQLGAGQLPAV VAYEAFYQHSFAEQSYDSCSRV RVPAATLAVGTMCGVYGSA CNAQRWLNFGQDGTGNGLAPLD ITFHLLPEGQAVGSGIQPLNEGV ARCNESQGGDDVATCS

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22685	53053	A	22813	198	380	ASSESDSTPCR*MAYSWPPNSN SSHCIKELPLFMGKIPAA* DGG PQGLAIFPPGVIVGI
22686	53054	A	22814	1	154	
22687	53055	A	22815	35	486	PARRGRDEC*VLAPFRATRPPS RRIR*SKATYPIPSNDQTRTI SRERASMPRSAEPKRPTIPLRHP SPRGIVTVSS/RPRSHALPVSHIH SCHSRITAISDNQVPAFLQVYGE EVRKRAGEVTQAITGFPRYRLF FKMLRCHRSIQVTAST
22688	53056	A	22816	212	365	RCRSGPAPRSAPGARPASPSPPA AGTCR*RPAGHCAGAAAGLLSL CPRCST
22689	53057	A	22817	293	618	QQNPTNCLPPASR*SKT*RARST AGPTRPHLHHPAAPAGSPACA GEGRLQR/HSPNPI.YFNWKKQR FAAKPHFRPQSSLNPQQWLLA GLLQEESSSLGTDAPLHSLG
22690	53058	A	22818	3	1129	FCLDDLSSAINEHLSARGRRRS IVKVS LHPAVIGLKSFLKKPD QLRKLFIAGLSFETDESLSHF EQWGTLDTCVVMRDPNTRKS RGVGFVTYATVEEVDAAMNA RPHKVDIGRVVIEPKRAVSREDS QRPGA/HLTVKKIFVGGIKEDT EEHHLRDYFEEIILNSMGKLEV VEIH*LDRIQGWPRKRGAFTV FDGHDSVDKIVIQKYHTVNG/H NCEVRKALSKQEMASASS/SQR G/RVGSGNFWCGRTNGFGGND NFGIRGGNFSWSVAVFGG/SRG GVWIVWAVGDGYNGFG/NDGS HFG/GGGSY/NDFGDFH/NQSSK FWTP*RGGNLGGQKLWPPMGG GGQYFAKPTPKVAYGRFPAA ASSYGKWPEDFN
22691	53059	A	22819	1	568	MGKMSPGHVRDFHSGSCHHNR GGPGGKSGFMGQALGPG/GCV QPRDLVLCVSATPAMAERGQC GAQAVASEGGSPRPWQLPCGV EPADFRRYMETPGCPGRNL/PA GAGPL*RTSAGAVWKGNVRS SP/PQSLYWGATSGAVRRGPPSS RNQNGRSTDSLHCMPGKDTQ/P NP*KQPGGRLHPAKPQGRSCP
22692	53060	A	22820	232	389	

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22693	53061	A	22821	3	401	VGVCEKRGAPGPPAPGPARG PVAAAAPP/GPGASRAR* DAA AAAGGRGPPGQ* T*KAWGLHP GTGSL/RGHPAPM* PLLRAFP PLHPLPPHPLPRRAA/SNPGTS KCRTAAGTRQWGGRQS QLQRC QCLR
22694	53062	A	22822	1	410	MGKMSPGHVRDFHGRPSHHRP RGPGGKSGFVGKVQGP HAVCS LGTWCLVSQPLHP/G* KGP MYS SGVASEGGSPKPWLPRG VEP MGAQKSRTEVWEPLPRFQKIY GNTWMPRI PMCCARDPGGAKG GCSNPSQRR
22695	53063	A	22823	264	979	GPRHADPANFSARNLSRP* DAP GRVQDPRPQAPQLPPGLGAPSR VRRPPPRRPVDRTLPGGPRPPA AAA/GPTGGRGS/PRAGGTAA A TGPRAGPGARGAAGSAPFLTDP NM/GRPPPPATTTPPGAATAPGP REEAPGKFRVSPGPGSAGGPP TRASPTPTAAGGGGGDSEGEPP ILLVADAG/PDSARSPPLPGCV LSAAPRSRRDPDAVGGLAASA AARLNTTWKLPQLGASTL
22696	53064	A	22824	271	426	
22697	53065	A	22825	546	1296	KMVDCLANSEANTRRISIVENC FGAAGQPLTIPGRVLIGEGVLT KL/CRKKPKARQFFLRNDIVV* GNIVIQQKKYIKQHIIPLNV TID SIKDEGDLRNGWVIKTPTKSFA VYAATATEKSEWMNHINKCVT DLLSKSGKTSPNEHA AVVVPD SEATVCMRCQAKFTPVNRRH HCRKCGFVVCGPCSEKRFLLPS QSSKPVRI CDFCYDLLSAGDMA TCQPARSDSYSQSLKSP LNDMS DDDDDDMDQ
22698	53066	A	22826	1219	2370	
22699	53067	A	22827	164	601	DRTNIMVGYHQTNQKTDGKT PTRRPVLVDHNRLPEGSRGRL AVAVAGDHPAAVQVTMTLVN DTGFDPVFSGSIAESWGQHS GT PSYC*DWEAATMLRAFLAKK GETKDLRQFPNIDNAYMELGT NRADAVLHDTPNILYFMQF
22700	53068	A	22828	2	91	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=-possible nucleotide deletion, \=-possible nucleotide insertion)
22701	53069	A	22829	1	1188	MGAEPSSLTSLGTLWSGERFQC MRAKIWERSRKGRFFSTDVISP TKDSFAGPFQPIDTLVQHQRIV GLKVCVLPDPCKIRILKPNPQC VGKWEVEVAENIEIQVFGGERF DINKYSKSPPPPTPQPLYLTAGF ASCRNHRKSEELREGKGESPGK SKPFHLQANFTVALVTTLQGDK HSQEAIRPVAKAKTTCTYLSN VCEMKDFKRINCPDPFHKMAP KAKKEA\PAAPKAEAKAGFK GPRRQVLK\GVHNHKKRKRKK ERSRTFTHLSRRPGRPLR\RRQP KYPFSGRAAPRRNKLD\HYAIHK FPLT\TESA\MKKIEDNNTL\VF\I VELLKATTKNQIKQGC*RSLYD IDVGQGSTPWISAWMGEKKGI CSDQLAPDLPIAFGMFANKIWGFI
22702	53070	A	22830	1413	2197	RVEWRWYNVLPCLDVHSGPVD RRSHVMTAAEKPPFCPAWQQA VSQQSCALEPRTGEEGGKGIQG PASGLFPTGEEISVVPNRWLDA SLSPVILGVQG\GSQCLSCGVQG EPTLTLEVRIGASSLGTQ\QML SLLKPGSPQPWCCGTP*QDSVD GSFASSLRILAKALLCGPGFCPS LTLPSFCRKPVTIME\LYLGAK SKSFTFYRRDMG\LTSSFESAA\ YPGWFLCTEPEADQPVRLTQL PENGWWNAPITDFYFQ\CD
22703	53071	A	22831	100	177	KRDHF*SRLQQVSRSVRWSSA TDSR
22704	53072	A	22832	610	1080	
22705	53073	A	22833	1169	1308	

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22706	53074	A	22834	1	1889	ACRRRAGTWTPRPRGSGSRA MAGNCGARGALSAHTLLFDLP PALIGELCAVLDSCDGALGWR GLAERLSSSWLDVRHIEKYVDQ GKSGTRELLWSWAQKNKTIGD LLQVLQEMGHRAIHLITNYGA VLSPEKSYQEGGFNILFKETA NVTVDNVLIPHEHNEKGVLKSS ISFQNIIEGTRNFHKDFLIGERG E/IFGGYQEGKIQTLYAVKLFK QEKMKQCKKHWRFLSELEVL LLFHHPNILELAAYFTETEKFC LIYPYMRNGTLFDRLQCVGDT APLPWHIRIGILIGISKTHYLHN VQPCSVICGSSANILLDDQFH PKLTDFSMAHFRSPLEHQSCCI NMPSSSRKHLWY\MPPEYIRQ GKLSIKTDVYSFGIVIMEVLTGC RVVLD DPKHIQLRDLRELMEK RGLDSCLSFLDKKVP C PRNFS AKLFCLAGRCAATRAKL RPSM DEV*RALESTQASLYFAGDPP TSLKALRGPSPLFLEKVT\SIPV VEDDEKPNNNLLPS**KALRMK RWPQK\TPFEC SQ\EVWFLSLE QKAREARENEEACNMPSS\CE ESWF PKY\IVPS\QDLRPL*GK*K ILSSQA\SGHSC\RTKPVSSSCSS KFSWDEYEQYKKE

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22707	53075	A	22835	1	1560	RWERGGKRFRAADPMSALRRS GYGSPDGSYGRYYGPGGGDV PVHPPPLYPPLRPEPPQPPISWR VRGGGPAETTLWLGEGGGDG YYPSGGAWPEPRAGGSHQEQ PPYPSYNSNYWNSTARAPYP STYPVRPELQGGSLNSYTNGA YGPTYPPGPANTASYSGAYY APGYTQTSYSTEVPTYRSSGN SPTPVSRGIYPQQDCQTEAPPLR GQVPGYPPSQNPGMTLPHYPY GDGNSVVPQSGPTVRPQEDAW ASPGAYGMGGRYWPSSAPSA PPGNLYMTESTSPWPSSGSPQSP PSPPVQPKDSSYPYSQSDQSM NRHNFP/CASVHQYESLGDQ*T MDDSRILLDSPSPSIVPEPSACM GNAHPVTHPNNQDQSSSLPEE CVPSDESTPPSIKKIHHVLEK VQ YLEQVEVEEFVGKKTDKAYWLL EEMLTKELELDSVETGGQDSV RQARKEAVCKIQAILKLEKKR IMKGFTIKWKPVTNLTKHELIW LITLFLKCLMLTRSNTFQLFL
22708	53076	A	22836	8	207	TPVPRALRSPAGLEGSHLSSIST MMPAVMSVGKVTENGSGSPQGI KSPSKPPGPNRIG*RNQVSVHT
22709	53077	A	22837	459	5520	RQVRPAGLESDLSINTMMMSA VMSVGKVTENGSGSPQGIKSPSK PPGPNRIGRRNQETKEEKSSYN CPLCEKICTTOHQLTMHROHN TDTGGADHSCSCIGKSLSSASSL DRHMLVHSGERPYPKCTVCGQS FTTNGNMHRHMKIHEKDPTSA TATAPGRGDFASAKSSKRKLSH DAESEREDPAPAKKMVEDGQS GDLEKKADEVFHCPVCFKEFV CKYGLETHMETHSDNPLRCDIC CVTFRTHRGLLRHINAL
22710	53078	A	22838	164	434	
22711	53079	A	22839	23	242	
22712	53080	A	22840	187	325	
22713	53081	A	22841	1	130	NCPMCWPGQSPRVFST*GRRNP PPKRRSVSAES*RHWPQSPSP
22714	53082	A	22842	614	774	QEPMRMCTMLANSSPSSQATP PGL*SWNQPSLPARTLSRHEWT SCLGSSANL
22715	53083	A	22843	396	560	LFPHDGIKHKKENP/PKGP PPP THPQTTPPRPADAPLVATKSTLD QAWALLAVATS
22716	53084	B	22844	124	205	

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22717	53085	A	22845	I	2355	MVGSRRISGVIPLPFTTRRAGIFS DPRANMQPLWAPVPPATFVPTS LPPVPTARPPTSASCHCQQVPC AGLEVALPGNRTICWLSLWPS WQLDEDAQSPALESSEIRQFPT APRSGYPGTLCPSFLGPRPRTC EYHSKPVLCA PSSRASPSA TTL STRTLWGPAGSHPGVHINTR LSPDLCPGKIVLRALKESGAGM PEQHKDPRVQENPDDQRTVPE VTGDARSAFWPLRDNGGSPFV PRPGPLQTDLHAQSSEIRYNHTS QTSWTSSTKRNAISSSYSSSTGG LPLGKQRRGPASSRCQLTLSYS KTVSEDRPQAVSLGHTRCEKG ADTAPGQTIAPTASRP HINTSLH VEDKAISDCRPSRPSHTLSSLAT GASGGPPVSKAPTMDAQQDRP KSQDCLGLVAPLASAAEVPAT APVSGKKHRPPGPLFSSDPLPA NSSHSRDSAQVTSMPAPFTAA SRDAGMRRTRSAPAAAAAAPP PSTLNPTSGSLLNEWMEAPHIS WPQQLQHVPGRQ/NVRYNQR SQTSRTRS/CPQTKCQLQLPQLY GRPPGSKAEEG/PASSHCQLALS SSNTVSEDGPQA VSSGHRCEK AGTAPGQTLAPRGGSPRSQASR PHINTALHVEDKAISDCRPSRPS HTLSSLATGASGGPPVSKAPTM DAQQDRPKSQDSLGLLAPLASA AEVPSTAPVSGKKHRPPGPLFSS
22718	53086	A	22846	I	1200	MPEQDKDPRVQENPDDQRRVP EVTGDARSAFRPLRDNGGLS/PP FVPGPGLQTDLHTQR/LGYRV TVEDLDREKAAAFQRINSALQV EDKAISDCRLSRPSHTLSSLATG TSGLPVSKAPSMDAQQERHK SQDCLGLLAPLASAAEVPSTAP MSGKKHRPPGPLFSSDPLPAT SHSQDSAQVTSIPAPFFAASM DAGMRRTSPGTSAPAAAAAAPP STLNPTLGSLLIEWIEALHISGPQ PQLQQVPRGQNRQSQTSTRSSC PKRK/CHLQLQLYGRPPGTKA EEG/PASSHCQLTSSNTVSED GPQA VSSGHTHCEKTADTAPG QTLAPRGGFPRSQASRPCRHKF PLLPRRRGEPLMLPPPELGYR VTAEDLDREKEVAFQRIKSALQ VEDKAI

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22719	53087	A	22847	2	1762	YHSKPVLCAPSSRASPSASATLS TRTLWGPGAGSHPFVGHNTRL SPDLCPGKIVLRALKESGAGMP EQHKDPRVQENPDDQRTVPEV TGDARSAFWPLRDNGGPPSFVP RPGPLQTDLHAQSSEIRYNHTS QTSWTSSTKRNAISSSYSTGG LPGLKQRRGPASSRCQLTLSYS KTVSEDRPQAVSLGHTRCEKG ADTAPGQTIAPTASRPHTSLH VEDKAISDCRPSRPSHTLSSLAT GASGGPPVSKAPTMDAQQDRP KSQDCLGLVAPLASAAEVPAT APVSGKKHRPPGPLFSSSDPLPA NSSHSRDSAQVTSMIPAPFTAA SRDAGMRRTSAPAAAAAAPP PSTLNPTSGSLNEWMEAPHIS WPQPQLQHVPRGQ/NVRYNQR SQTSRTRS/CPQTKCQLQLPQLY GRPPGSKAEEG/PASSHCQLALS SSNTVSEDPQAVSSGHRCEK AGTAPGQTLAPRGGSPPRSQASR PHINTALHVEDKAISDCRPSRPS HTLSSLATGASGGPPVSKAPTM DAQQDRPKSQDSLGLLAPLASA AEVPSTAPVSGKKHRPPGPLFSS SDPLPATSYHSRDTAQ

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22720	53088	A	22848	292	2053	GSVAWSFPSPSSSLCLWDLPV APTLWGPAGSGHPFGVHNTRL SPDLCPGKIVLRALKESGAGMP EQDKDLRVQENPDDQRRVPEV TGDARSA/FLAPAGQWSPLSLC AQSRASADIPPCPEVRNQI*PDIP DHLDELHQPKCHLQLLQLCG RLAGAKVEEGASGAKEQGRDA *AGQGTPEQQNPDDQRTVPEV TGDARSTVRPLRDSGGLSPFVP RPGPLQTDLHAQSSEIRYNQTS QTSWTSSSTKRNAISSSYSTGG LLGLKQRRGPASSRCQLTLSYS KTVSEDRPQAVSSGHTRCEKA ADTAPGQTLAPRGSPRSQGSR PRRRKIALLPHR*GELQVEDKAI LDCRPSWPSHTLSSLATGASGE PPVSKAPTMDAQDRPKSQDC LGLVAPLASAAEIPSTAPVSGK KHRPPGPLFSSSDPLPATSSHSR DSAQVTSLLIPAAFTAASMDVG MRRTRPGTSAPAAAAAAPPST LNPTSGSLN/EWMEALHISGPQ PQLQQVPRGQ/NVRYNQRSQTS RTRS/CPQTKCQLELPQLYGRPP GTKGCRHEKNVLC SKLFEGFGF IFVGFFFFAYMGILQLLI

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22721	53089	A	22849	146	1789	RQPSTSGSSRSCPCARRSWWAR TARSGWWWELLGARRSPQTLH CPQATLITLPCRPSTSTSGSAM T*RGPWRSFGCTTSFCPTSR/PV ERNIDQTDLHAQRSEIRYNQTS QISWTSSCTNRNAISSYSSTGG LPGLKRRRGPASSHCQLTLSSS KTVNSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVSKSDDT LKINGVEDHKTFIDGGDKTYQN VQQFIDEGNYTSGDNHTRLRDPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSAKKRDAELANGA LGIIELNNDYTLKKVMKPLITR GSSRPSIREDENGRSQKPVHPEG DMTMNIKIVNQATVLTFTTAL LAGGATQAFAKENNQKAYKET YGVSHITRHDMLQIPKQQQNEK YQVPQFDQSTIKNIESAKGLDV WDSWPLQNAADGTVAEYNGYH VVFALAGSPKDAADTSIYMFY QKVGDNSSIDSWKNAGRVEKDS DKFDANDPILKDQTQEWGEA
22722	53090	A	22850	500	1034	

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22723	53091	A	22851	1	2396	MDKYLLHGPPRPPIASRCLA RVPGCAYSSIMVALSLVPLCAH MPTPSGLEVALPGNRTICWLSL WPSWQLDEDAQSPALESSIRQ FPTAPRSGISPLCAPHSCLGQGR GPASHPTSTQTLDISGVKTTTPRR FSVILQDLC SILGDSC LQFHLHR VPQQVSAVLLRVSGASPSATT LSTRTLWGPAGAGSHPFVHNT RLSPDLC PGKIVLRALKESRAG MPEQDKDPRVQENPDDQRTVP EVTGDARSAFWPLRDNGGSPSF VPRPGPLQTDLHAQSSEIRYNH ISQTSWTSSNTKRNAISSSYST GGLPGLKQRRGPASSRCQLTSL YSKTVSEDRPQAVSSGHTRCEK GADTSPGQTIAPTGGS PRSQDS RPRRRKIPLPRRRGEPLMLPPP LELGYRVTAEDLHLEKETAFQR INSALHVEDKAIPDCRPSQPSHT LSSLATGASGGPPVSKAHTMD AQQHRPKSQDCLGLLAPLASA AEVPSTAPVSGKKHRRPPGLFSS SDPLPATSYHSRDSAQVTS LIPA PFTAASSDAGMRRTRPGTSA AAAAAPPSTLNPSTGSLNNEW MEAPHISWPQQLQHVSRGQ/N VRYNQRSQTSRTRS/CPPRKCQL QLPQLYGRPPATKAEEGPASSH CQLAHSSNTVSEDPQAVSSG HTRCEKKAGAS/RWASRF*STH YGCTAGQTQVPRLPGTGPSSI
22724	53092	A	22852	1	3392	MDKYLLHDP RPPIASRCLA RVPGCAYSSIMVALSLVPLCAH MPTPSGLEVALPGNRTICWLSL WPSWQLDEDAQSPALESSIRQ FPTAPRSGYPGTLCPSFLGPRP RTCEYHSKPVL CAPSSRASPSA TTLSTRTLWGPAGAGSHPFVHNT TRLSPDLC PGKIVLRALKESGA GMPEQDKDPRVQENPDDQRTVP PEVTGDARSAFWPLRDNGGSPSF FVPRPGPLQTDLHAQSSEIRYN HTSQTSWTSSST
22725	53093	A	22853	40	409	WKMRHETRYNVLVSRGVGCH RLFFLNGVFEHLGRAFVQRKV DTEHQLLRAAVPANQEHRLT QSQHV DGHSLLLTLNPSFLCQI QEP SLGSGSGALSGNVRI RPQA QEAP EEP SVLTLLW
22726	53094	A	22857	3	220	

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22727	53095	A	22858	1	356	MAGPVKDREAFQRLNFVYQVS LRQGPBGDGAARRPRVTAPLPQ AAHCVLAQDPENQALARFYLIH TERTIAKRLVLRDPSPVKEELL CRGCSSLLVPGLTCTPAPRDR RGQRWGTGTDLP
22728	53096	A	22859	2	270	
22729	53097	A	22860	2	364	IFSALPARRKVLNLAPVTEPR DQPWAMIIDVF/SRYSGSRGQPR QTLTKGELKVLMEKELPGIFL QSGKDKDAVDKL/KDGPGRPM GDAQGGTFSEVHPCSVAAITSA CHKVYFEKAGLK
22730	53098	A	22861	282	469	DCGSELQAPPPSLPGPLCPSIM PA/PPYASPPMMPMMGPPFRGM MPVGLAPGPMLLQYNTCS
22731	53099	A	22862	7	522	SVVWNSNGLQSNMPKFYCDY CDTY/LTHDPSVRKTHCSGRK HKENVKDYQKWMEEQAQSLI DKTTAAFGQGGKIPPTPFSAPPPA GAMIPPPSLPGPPRPGMMPAP HMGGPPMPPMMPGPPPGMMP VGAPAGMRPPMGGHMPMMPG PPMMRPPARPMMPVTRPGMTR PDR
22732	53100	A	22863	3	455	WFLIHDRTHTEKPKYKNCNV KAFHRSTCLHAHKRTHTEKPK YECNQ*GKAFNSSHSFQIHRT HTGEKPYECKECGKAFKGPSSV RRHERTHSTKKPYECKHCGKA LSYLTSTFHNHLMHTGEISHTC KICGKAFYSPSVIQTHE*TH
22733	53101	A	22864	1	1665	
22734	53102	A	22865	1	2650	

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22735	53103	A	22866	107	2384	MFGVHGTFLGIESRPLLSLSPS LLYTCEMFQDPVACEDVAVNF TQEEWALLDISQRKLYREVMI ETFRNLTSIGKKWSDQNIYEY QNPRRSFRSLIEKKVNEIKDDSH CGETFTQVPDDRNLNFQEKKASP EVKSCDSFVCAEVLGIGNSSFNM SIRGDTGHKAYEYQYEGPKPY KCQPKNKKAFRYRPSIRTQER DHTGEKPYACEGCKTFISHSG IRRHVMVMHSGDGPYKCKFCGK AVHCLRLYLHERHTHTGEKPYE CKQCGKSFTYSATHRIHERTHT GEKPYEQCGKAFHSSSSFQA HKRTHTGKGPYECQCGKSFS WCHSFQIHERHTHTGEKPCECSK CNKAFRSYRSYLHRKRSHTGEK PYQCKEKRKAFTYPSLLRRHER THSAKKPYE/CSFYHERHTHT EKPYECKQCGKAFCAPHLRR HGRTH/SAEKPYECKECGKA SASHLQIHERTQTHIRIHSGERP YKCKTCGKGFYSPKSFQRHEKT HTAEKPYECKQCGKAFSSSSSF PYHERHTHTGEKPYECKQCGKA FRSASILQMHAAGTHPEEKPYEC KQCGKAFRSAPHLRIHGRHTHTG EKPYECKECGKAFRSAKNLRIH ERTQTHVHRMHSVERPYKCKIC GKGIFYSAKSFQIHEKSYTGKGP YECGLQLPRTAAESVDSEKLQG PGKQETHVQLLSLYCLRRVLDG
22736	53104	A	22867	1	391	MKEHIERNPVTIKNVKPSINT VPLEDMKAHTGEKPYERQKCE LNQRLRDYAFQYHESNSGVVS ADSETKSGHSGCLIKEMKNATK THNGITGGIIFNANHWRNTNTIY TRIH/GEKSCDYKKCGKAFNQ YSSLRRHESHTGEKPYERQKC ELNQRLRDYAFQYHESNSGVV SADSETKSGHSGCLIKEMKNAT KTHNGITGGIIFNANHWRNTNTI YTRIHINKQEKYQATHVSYAAN
22737	53105	C	22868	179	289	
22738	53106	A	22869	3	206	

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22739	53107	A	22870	1	855	MPRAEPRATLGEQEKAAGLPLG AWRLYLLRHFRKQTELRRSGSR DVTGALLVAAAVASEAVGSLR VAEGGPNTLLQVLRIW/PWC NKEKLTMEERKVKRRSPKSFSA HCTQVVNVQKMSIPVSK/STG FSNPASQVNTSRPKVKKEVM KAEKTKPQGLEEQRHSSQLPIQ HSFLTVDVSRCSRKMERGLLSL LNDHFSWKTFKHFGNECSIEQ MEHVSSELQEKLARLNLLEYG ELEELPEDKRKTASDNLDRLL SDLEELNSSIQKLHLA/DAQDVP
22740	53108	A	22871	67	598	SIRRHCGQRCLVRIRIWLKLPP RLAVREGLRCGTLRDVMPSPM SGVVVGPPGPPGPGCDTTS GP APGTFGQASAPVSPRRGHGEY LCSSPTPVFFPGLWQPPRAGFTA PERSWSRGPRWQLRAA WAGR LSSSPVSALLTFKVILSTGLLFG PLGGWKILSSLPEIFANLAT
22741	53109	A	22872	1	372	
22742	53110	A	22873	1	3961	FALAPEAGFYSLGQQPSTRISGS GCVHPVRVWPFSEIPIGTLNV GESMQLEVEFEPQSVGDHSGRL IVCYDTGEKVFSVLYGAAIDMN IRLDKNSLTIEKTYISLANQRTIT IHNRNSIIAHFLWKVFATQEE DREKYSKVTAVFSIAASSNSRF ALYESSYNSQRSPEWACDDLI KEEKDETFEFEECITDPLLREH LSVLSRTFANQRRVLVQGD SKLF FNNVFTVEPLGWSEKEMAEIR DVQKDKTKV
22743	53111	A	22874	1248	1716	WYAEQSAHEATAQLSTPMAIR RAVVMPEQQRNRTKKEY/SLRI PFGLPGDRMCFTHRNDD/PTG NEVTPPSLAADLGQOFGGDAT DROPMIHMQLIHQGEQLCF VEHGINMLRLGEILHLAATRHE AHFLAFRQFFNHQRSFCALNLA RQDRITDF
22744	53112	A	22875	478	663	
22745	53113	A	22876	508	884	RQRHPDQRPGRSLFHGHGMCP TTPQQQVDSQHNGDNNSESA P*QRRADSIHRSSLHIKRRPPE DVSRCFLCIDAFRQGFTEFNKK GIRVRIPFGLPGDRMCFTHRN DDRPMAMKLLPFAGNKV

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22746	53114	A	22877	1	506	AFCRFSILVGSFISETDMCLLC PFPIGKAISVRLQYFKHETKQSI CLGNQKSPLVCPFFGEQGLDSS SSLDLPSNPAPTLCPVQPPR GPVSVSPVSVMSGRLAPLLSA *LFVSVILGRMVILKNPGVLGQ RQAGPSPGAPGLPSPSVRAPLG HKCSERSPSAT
22747	53115	A	22878	621	877	RRRRRRKQRRKQPWSSPARGA *GPRRRPSLRAAGTRRRRKRRA SWTRCSNTCPGRCTCSRSNQA SCPSLLHLLLLFGSFFSFY
22748	53116	A	22879	1	1339	MPSYKGGGETQRHATNGTAAP PRRSSCRGDAIKLPHAEKKEGR PPASTSYPLRLGTRRSARSSHC WCTSWEDPPEATAGEEKRIHPK SPAVCCGEGTVLTASTVTWRA EPARGEIWARLCPDRPGSRAA AVIWERPCCDRLIADRTGPPNS EPHCRAATIPLTWLPEGQTLT LKALAKMAAPALLLALLLPV GAWPGLPRRPCVHCCRPAPW/L WTLCPGKEGEAGVRGRAGRS KEGAA\GCPGAPQSAARRGSV GPPGAACRRAYAAFSVGRREG LHSSDHFAQVPFDTLVNLDGA FDLAAGRFLCTVPGVYFLSLNV HTWNYKETYLHIMLNR/QAA/V VLYAQPSERSVMQAQSLMLLLA RRATPVVSVPEELPAVLPGQDE LGSLLQHAHHPLADGLVRHEL QPGLAGSSRTGHLVFRTDHGLR QHASHGCPVGPLHVP
22749	53117	A	22880	532	783	VGSTRGIVEGLIFLGEKGECYY PRSLFTVANFTVGKRVKTLNC PSTDKWINKMCHIHTVEYYSDI KRNEIPMRATCRQTLKA
22750	53118	A	22881	275	720	TPIHNCFKENKIPRNPTYKEHEG PLQGEQTTSQGNKRGYKQME EHSMLMGGRINIMKMAILPKVI YRFITPIKLPMTFFTELEKTTSKF IWNQKRARIAKSILSRKNKAG/ AHHAT*LQTLQGYSNQNSMVL VPKQRYRPMEQSPQK

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22751	53119	A	22882	1	609	MGRNQSRKAENSKNQASSTP KDHASPA TEQSWMGND FDEL TELGFRKSVMTNFSQLKEDVRT HHKEAKNLKRLDKWLTRINSI EETLNDLMELKTMARELRDTC TSFSSRFQVEEGEIQTIREYY EHLYANKLENLEEMDKFLDTY TLPLRNQEEVESLRNPITGSEIE AIINSLPTKKIPGPDRTA*RRP* MT*WS*KPWHEHYVTHAQASV ADSIKWKKGKYKHHQRIL*TP LRK*TRKSRNRNG*IPGHIHSPKT KPGRS*IPETNNR*N*GNN**P TNQKNSRARQIHSQILPEVQRG
22752	53120	A	22883	191	564	PNARKLRLTKKDHSPD**RRKL RKIK*MQ*KMIKGISQ/RSRHRNT NYHQRTL*TPLHK*TGKSRNRNG *IPGHIHPPKSKPGRSQIPEYTNN KI*N*GSN**PINQKKSRTGRIHS QILPEVQRGA
22753	53121	A	22884	337	589	TRRSRRNG*IPGHIHPPKTKPGR SRIPE*TNRL*N*GSS**PTNQK KPKRTRETDRLPEVQRGAGTIP SETIPNNRKRGTTP
22754	53122	A	22885	162	539	TRKSRNRNG*IPGHIHPSKTKPGR S*IPETNNKF*N*GSN**PTNQK KPRTRQVHSRLPEPISHGMGKS WKQSL*KPAQDKAVPSLIAPIQ HIISSGQGNQARERNKGYSNR KRGQSIVSVCR
22755	53123	A	22886	329	459	NDDTFRKPHRLSPKSP*AADKQ LQQSLRIQNQCAKLRSIPIHH
22756	53124	A	22887	58	440	GLSRQFSPHSVNVKAAGEVPTGR GPPQLSKANVARLPLSIPPLWA GHLWKKGSPSQIIDKTLISLG QST*GKGQLWVQLQRT*AFLPA GSEESSGSPSTA/PNSAKGQTPS SSGSLTRASSSSLYLW
22757	53125	A	22888	219	332	NEGKNLKGSRERNNTNYHQRT Q*TPLHK*TRKSRNRNG
22758	53126	A	22889	1295	1435	QNQRQKPHDYLNRCRK/W/HFD KIQQPSMLKTLNLGNDGTYL RIIRDI

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22759	53127	A	22890	2	648	YRFSGPTIRSIQNHTHTNQGRK WIKKGIKKPRAQRYESLKGPE V*PSGQGVTCLLRADWLSPLL SGTYVGPFLRNTRFAKKHNK KGLKKMQANNAKAMSARAE AIKALVKPEVKPKIPKCS/RR KLRFDAFYIAHPKLWGRRCFVA RFCQASGCSGPKGAKVPKA KVKVS/PKAKAKAKADQTKA QAAAPALVPAQAPKRTQAPTK ASE
22760	53128	A	22891	3	370	QMYCVFNERNEDACRY/GS/AIG VLAFLASAFFLVVDAYFPQISN ATDRKYLIGDLLFSGVLA SLAYQRYKAGVDDFIQNYVDPTD PNTAYASYPGASVDNYQPPFT QNAETTEGYQPPVY
22761	53129	A	22892	1	297	
22762	53130	A	22893	3	713	GGSGGGDGMESGAYGA AKAGGSFNLRRLTQPOVVARAV VLVFAVLFVSCFYGEGYSNAHES KQMYCVFNERNEDACRYGSAIG VLAFLASAFFLVVDAYFPQISN ATDRKYLIGDLLF/SALWTF LWFR/VGFCFLTNQWAVTK/PKT VLVGADSVRAAITFSFISFSG VLASLGAYQRYKAGVDDFIQNY VDPTDPNTAYASYPGASVDN YQPPFTQNAETTEGYQPPV
22763	53131	A	22894	3	219	
22764	53132	A	22895	1445	1777	PVHLGSTCHQCRQKTIDTKNC RNPRLGA/CRGQFCGCLQNR YGEEVRDALLDPNWHCP/HCR GICNCSFCRQRDRGCATGLVY LAKYHGFNGNVHAYLSLQKQEF EMQA
22765	53133	A	22896	3	337	
22766	53134	A	22897	425	1209	TMSSTQFNKGPSYQLFAEIKNQ LLFKCDPQKQAALCSWIEGLTR LSFSPDFQKSLKEGIVLCTLMN KLGSPVKI/NRLMQNWHQLENL SNFIKAMVGYDMNPMDFEAN DLFESRNMNTQNRILP/PLDHSTI SLQMGANKRSSQ/VGMTAPGTP QHITYNTKLGAHKCDNSSMLH MGDTQSANHSVQGFGLGQQIY YPKYCPQ/GPAASGAPLDAGNC PGPGAEAPDPPCSQEAAATEAPE HAGSLHHRPVVWVGIFLYRLL SFFFL

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22767	53135	A	22898	156	559	QHIRETPGAQVHSCGKWNPPQA LWRTAWQLLT/DTKHTLGKPPS /MPHLVIYPLEISC\HTKTCTRML IASFFIITKTWKRPRCPSPVDKWK NKPWCIHTGLLSSTVPPGEPGC PIPELSGLLMGLQTTSRSCSVRQ VW
22768	53136	A	22899	161	359	
22769	53137	A	22900	151	383	
22770	53138	A	22901	238	546	PQEHIMEHLEGVINKPRGRCR PQELQLHYLQKCMDYDGNLL DGFRTLPPQSTHVHKEEGSEQ APLMSEDELINIIDGVLRDDDK NNDGYIDYAEFAKSLQ
22771	53139	A	22902	1	819	MAAEDKLLLPQLPELFTSKQL LDDVEVVTEPAGSRIVQKKVFK GLDLLEKAAEMLSQL/DLVAEL ELPKTKNSAEINHTANFSMAYP SLIAMASQRQAKRERHKQKEL EHRLSAIKSAVETGQADDERVR EYLLHLQSLLEIESIDQEIKILR ERDSSREASTSNSSRQERPPVKP FILTRNMAQVKVFGAGYPSLAT MTVSDWYKQHWKYGALPDQG IAKATPEEFRKAAQQQEGQEEK EEEDDEQTLYRVREWDDWKG HPRDYGSSQSMG
22772	53140	B	22903	238	410	
22773	53141	A	22904	1	638	VAEELPKTKNSAEINHTANFS MAYPSLIAMASQRQAKRERHK QKELEHRLSAIKSAVETGQADD ERVREYLLHLQSLLEIESIDQE IKILRERDSSREASTSNSSRQERP PVKPFILTRNMAQVKVFGAGYP SLATMTVSDWYKQHWKYGAL PDQGIKATPEEFRKAAQQQEG QEEKEEEDDEQTLYRVREWDD WKGHPRDYGSSQSMG

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22774	53142	A	22905	3	1083	RGNSRLRYSHEDLQLPRLPEL FETGRQLLDEVEVATDPAGFR IVQEKIVFKGLDLLEAAEML ISQSTLFGRECRFWKDLSPHLI TFWGPAPQGAALPLKQVNP SKR LRILQRAREHFTNYLTQCHC YHVGQSFELPKTMNNSAENH TANSSMAYPMLGAMASQRQA KIQRKQKKELEHRLSAMKSA VESGQADDERVREYLLHLQR WVVDISLEIESIDQEIKILRERDS SREASTSNSSRQERPPAKPFILT RNMAQAKVFGAGYPSLP/TLW TVSDWYEQHRKYGSITGFRGIA KSAPEGISGKAAQQEEQEEKE EEDDEPNFHRAREW\DDWKD TPSLGAYGNRQNMG
22775	53143	A	22906	30	457	
22776	53144	A	22907	401	1509	MWKMNCSSLQSKQMCNQLPP GSTRDGSWKFRQDPRGLGKNA/C DCDSCIASEFGVRGYPTIKLLKG DLAYNYRGPRTKDDIIEFAHRV SGALIRPLPSQQMFEHMQKRHR VFFVYVGGESPLKYVTLKEMP AVLVFKDETYFVYDEYEDGDL SSWINRERFQNYLAMDGFLLYE LGDIDLNASSLRERKLILPEDIP LYVGKLVALAVIDEKNTSVEHT SELTVPVTVVVNTSNQYFLLD RQIKNVEDMVQFINNILDGTVE AQGGDSILQRLKRIVDAKSTIV SIFKSSPLMGCFLGLPLGVISIM CYGIYATDTDGGYIEERYVSK SENENQEQIEESKEQEPSSGGS VVPVTVQEPKDVLEKKKD
22777	53145	A	22908	53	543	LPISSLRTQTLFSSPLFPQHFEHY LALVSVLPFQLGRORTAPAKKG GEK/RKGHSAINEVVIQYETINI HKRIHGVRFKKRAPRALREIPK FAIKEVETLSVRIDSRFNKALCA KGIRNVPIRYRVLQRKRNEDE DSPNKRYTLVTYVPVSTFKNVQ TVHVHEN
22778	53146	A	22909	106	491	IGKGTNLMYGEK/RKGHSAINE EVVIQYETINIHKRIHGVRFKKR APRALREIPKFAIKEVETLSVRI DSRFNKALCAKGIRNVPIRYR QLSRKRNEDESPNKRYTLVTY VPYSTFKNVQTVHVHEN
22779	53147	A	22910	1	321	

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22780	53148	A	22911	313	402	R*GGEKKKGRSAINVVTRYET INIHKRIHGVGFKKRAPRALKEI RKFAKMEKMGTPDVRIDTRLNK AVWAKGIRNVPIRYIRVRLSRKR NEDEDSPNKLYTLVTVVPVTT KNLQTVNVN
22781	53149	A	22912	1	3801	
22782	53150	A	22913	2	535	GGGMADTVLFEFLHTEMVAEL WAHDPDPGPGVSAGLRGEEAG ATKGQKMSLSVLEGMGFRVGG ALGERLPRETLAFREELDLKLF LCKDLWVAVFQKQMDSLRTN HQGTYYLQDNSFPLLLPMGSG LQV/YLEEAPKFLAFTCGLLRSA LYTLGIESVVTASVAALPVCKF QVVIPKS
22783	53151	A	22914	1	201	GDLPEINPLSSCSLLHEKDPPT TSGPQT/DQPKKHHTNFKSGP/T GNRTVQLTWQPLPEPLELWPK AL
22784	53152	B	22915	226	522	
22785	53153	C	22916	1	705	
22786	53154	C	22917	1	462	
22787	53155	C	22918	1	505	
22788	53156	B	22919	1	1059	
22789	53157	C	22920	1	411	
22790	53158	A	22921	1	212	LTSFLHCLSHHYHGAQIHPRH FLHLICRCHCHQYCHHAYLDPC PQDSHHLHWCWQPLPEPLELRP /RLSD
22791	53159	B	22922	1	864	
22792	53160	B	22923	1	635	
22793	53161	B	22924	1	874	
22794	53162	A	22925	1	566	MPSVRTGDPILHAHTLNPAVW LA WAVEGESLT LNWIWCPWQI EPLRHLYATPGSDATSLTVPTR VISPLCVDSWLFDPMLKTHAP ERTFLSFPAAKRQAHLCVLAS NCDKPMYVVLVKAHCAEHQIN LIKDDDNKKLGEWEGPCTIDRE GKPKCVVGCSAAVVKDY/GKE SQAKDVIEQYFKCKK
22795	53163	A	22926	59	602	PTAMVEEGIAAGGVMDVNTAV QEVLTALIHDLARGIREAAK ALDKYVYQSYCGFLQPEQNC HPREEGMEFMVLAQKF*MASV LPET*EKIRQAHLCLVASNCDEP MYVKLVLEALCAEHQINLIKVD DNKKLGEWVGLCKIDREGKPR KVVGCSCVVVKDYGKESQAK DVIEEYFKCKK

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22796	53164	C	22927	135	293	
22797	53165	B	22928	20	325	
22798	53166	A	22929	677	1031	TPTMCLRSHPLPLALVSVILSFP QPSFSSSLINSSWSSPRSSLSSSS RSFSSGRVNLHPPQTPSSH*SHL SSRSCCSAPLLTYHSSLLLVCS VPFPFPFPFPGENPLFVLSGSAP
22799	53167	A	22930	1	1011	MCLRVIFTIGAVSVILSFLSFFII LDQLQLVIPQSSLSSSSNLEDPY SESYAAARRPDSASTEPPPPAG KSSAEYRAHFLAVSTEAERIRA DLVLRARPLGPAHPRTLWPTTP AGPFCRMVAHNQVA\ADNAV TAAEPRRRPEP/SPSSSSSSPAAT ARPRPCPAV/PAPAPGDTHTFTF RSHADYRRITRASALLDA\LG YWGPLSVHGAHEPLRAEPVGT FPVRDSRQRCNCFALSVKMAS GPTSIRVHFQAGRFLDGSRES FDCLFELLEHYRGGSRADLLGA TLRQRRVRPLQELCRQRIRRPP VGRENLARIPNLVLRDY\SS FPFQI
22800	53168	B	22931	180	1466	
22801	53169	A	22932	1	207	
22802	53170	A	22933	408	3758	CLQQGPGGNQHCHSHREEAPAV AACQEPGGHSEPVLPPLGAPP SEEDGRQQVGSSRLRHMAEMI ATEREYIRCLGYVIDNYFPME RMDLPQGLRGKHHVIFGNLEK LHDFHQHFLRELERCQHCPLA VGRSFLRHILGQKQFPESPSGER PGLTSSHAPCPWMPHYLPEGPA CPVLRIPCEAFNWKHVECTDPV VSPPKQSPLLFQEEQFGMYVIY SKNKPKQSDALLSSHGNAFFKVI PLGPPTACPALS
22803	53171	A	22934	3	355	EAAELDAMCTATRQWSRAGQ GVTGRPCQGRPLRCGLRSTITP KPIPGGHRKKPLLGA/GKHTLS YVERWHWEGHSGI*TRDRQNF ERRLTVPPSRQPFAPTDETRCG DDRISFCNNY

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22804	53172	A	22935	1928	5312	CLQQGPGGNQHCCHREEA PAAACQEPGHSPESEVLP LGAAPP SEEDGRQQVGSSRLRH MAEMI ATEREYIRCLGYVIDNY FPEME RMDLPQGLRGKHHVIF GNLEK LHDFHQHFLELERCQHC PLA VGRSFLRHLLIGKQKF PESPSGER PGLTSSHAPCPWMPHY LPEGPA CPVLRIPCEAFNW/KH VTECTDPV VSPPKQSPLLFQEEQFG MYVIY SKNKPQSDALLSSHGNA FFKDK QRELGDKMDLAS
22805	53173	A	22936	3	306	
22806	53174	A	22937	3	460	LQRQRHPAAAPVVRCT FCT FTDIVIMPKRKSPE TEGKDGS KVTKEPTRRSARLSA KAPPPK PEPKPRKTSAKKEPG AKISRG AKGKKEEKQEA GKEGTAPSENG ETKAEIHHIS RSTVNVSTSRGTP PSTLSVKGQIETV RVKGTEN
22807	53175	A	22938	3	285	SSCPAREQLQRQRHP AAAPV PVRCTFCFTDIVIM PKRKSPE TEGKDGS KVTKEPTRRSARLS /AVFV*FKLSLQK PAPPKPEPKP RKTS
22808	53176	A	22939	1	413	
22809	53177	A	22940	2	454	AEVQVEEAGLRRLR LVSSCSGR GSIQRRFYAVPVRCT FCFTDIV IMPKRKSPE TEGIDGS KVTKEPTRRSARLSA KAPPNPEPQPR KTSAKKEPGAKIS RGAKGKKE EKQEA GKIEGTAPAE NDET KAE EAQKTESVDNEGR MNC
22810	53178	B	22941	55	186	
22811	53179	A	22942	2	397	
22812	53180	B	22943	339	470	
22813	53181	A	22944	1	139	
22814	53182	A	22945	1	416	MPLLYHLRCAVYVQ QCNFANP VVSALCTCLVKPV VEKCTPYA VLLLEALALRNVR QLEDLVIEAV YADVLRGSM DQRNQRLEVDYS IGRDIQRQDLSA IARTLQEWG/C HQHLLSLR SAASRQRCQGYHK LHDKQRLRG
22815	53183	A	22946	315	570	

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22816	53184	A	22947	933	1841	RPAEPDPGSGHPEPKSPTLSAV MSAEVKVTGRNQEQFLLLAKS AKGAVLATLIHQVLEAPGVY VFGELLDPMPNVRELAESDFAST FRLLTVFAYGTADYLAERN LPPLTEAQKNKLSDTFSVVTL AAKVKCIPYAVLLEALALRNV RQLEDLVIEAVYADVLRGSLDQ RNKRUEVADYSIGRDIQRQDLS AIARTLQEWCVGCEVVLGIEE QVSRANQHKEQQLGLKHHQIES EVANLKKTIKVTAAA\AAATS QDPEQHLTELREPAPGTNQRQ PSKKASKGKGLRGSAKIWSKS
22817	53185	A	22948	1	1319	
22818	53186	A	22949	365	1331	RAGGGAPWRFRTGTATVAPET AADLSLHRHLLSRTTSAWGTA CITVPIEPPTWPTWAVPIQWGG SATCIEQDKLRQGLYGYSSQV NQAMDSGLRPVVDVSNVIRVP QDYVTQSVPLREMNGSLGVLA QQLQNAKLQADAHAHSALKQSD DLKPVPDQAFTKVVTTPADAL QPLIPAAQTFTQQLVMVGDYIA QQGTQECGKTFSRASYLVQHS RIHIGKKPYECKECGKAFSSGS YLVQHQRHTEKPYECNCKG KAFTVYQQLIGHQSVHTGEKPF ECKECGKAFRLNSFLTEHQRVH TGEKPFCKCKCGKTFRYSSAP
22819	53187	A	22950	2	206	GGGQGATSFGRPESGFIRHQPPP PCRRSSPTRSKLYTL\SAPE*RS VPTSAPGPQDRPPGSVSKKSW
22820	53188	A	22951	571	1102	MGSVSLGNPQGPFPQFTRLPLAN VIHPTFFWETGPRGADSLGAKG RKWQPTFTSRCNKLKVVYLRAG SQAA TGGPSPLPNLHVKKLRP RKAEA WPGRRNTGKVSGR/LA ALRAPYGESFARAAGPRDAPS/ QQRPRQPEHAPTILISLGSNFGG MVEESWCRMNPDSSGRPKEVAP WPPPS TK
22821	53189	A	22952	1	591	MGPHWKDFKEIDVKKYIDALSI HTYTHTHTHTHADITGDHGG GALLELEINSHLKVVQFRELNITA AKETEDGGGGKAIIFVFPQIK SFQKIQVWLRRLPKPTRKSCVT QNMHWPPRSRTLKAMRDSIPE DLVFPSEIMCMRIHVKLGDGSL IKAHLDKAQQYHVERNAETFS GVYMKLTGKDINVEFPEFQL

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22822	53190	A	22953	2	508	APPFELPRAAGIRHEGKFSQEK AMFSSSAKIVKPNGEKPDFES GISQALLELEMNSDLKAQLREL NITAAKEIEVGGGRKAIHIVVPV QLKSFQKIQVRLVRELEKFKFSG KHVVVIAHRRRLPKPTRKSRTK NKQKRP RSRTLTA VHDAIPEDL VFPSEIVGKRNR
22823	53191	A	22954	145	395	
22824	53192	A	22955	536	717	
22825	53193	A	22956	1	729	
22826	53194	A	22957	1	1158	
22827	53195	A	22958	1	2869	MAHLRSCSSLYQPGHLLPPHN PIQDHPLTAPSLTHLTRRAYFTD EKTGGQSAYAVSLLRECVKL RPSDPTVPLMAAKVCIGSLRW MAAKHLAGVLLHLSLEECYWS PLSHPLPEFMGKEESSFATQAL RKPHLYEGDNLYCPKDNIEEAL LLLLISESMLANKLLEEMERV QSPGVESGVDRQLSPSYSDTNVN AQNAQIVPVAAKSAQNEVPGY PEETEKSRVQSNLLTQFQDLRL LLAAPECLPPRMSPPS
22828	53196	B	22959	28	139	
22829	53197	A	22960	60	812	LASPPFVPLHRCSAGSQPPGPVP EGLIRIYSMRFCPSHRTLVLK AKDIRHEVVNINLRNKPWYY TKHPFGHIPVLKTSKCQLIYES VIACEYLLDDAYPGRKLPYDP YERVROQMELLEFGKVPPLPK EPPGSVEDVGENAPNLKAALR QEFNLEIELEYQNTTFFG/GTCI SMIDYLLP/WPWFER/UECMGY WNCVSHTPALRLWISAMKWD PTVCALLMDKEHFQGLFNPFY QNNPNAFDGLC
22830	53198	A	22961	2	251	ILLDFKPWDDTDMQAQLEACV CSIQLEELV*GASKLVPMGYGI RKQLQCVVEDDKVGTDLLEEI TKFEEHVQSDVIAAFNKI

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22831	53199	A	22962	353	1071	APLWPRERKFKYQMNGPVAS ASRQSSAPG/NDHSELVLQIASL EVENQSLRGVVQELQAVASN EAWLNIRRRREKSSPGH/RSTVP QTQHVSPMRQVERPSRPPYYD PGQEAEDNEDDDIDLDNKEED KEARRLREERLRLYAKKAKNP SLVAKSSILLDIKPWDNKTDMT QLEACVRSIQLDGLVSGASKLA SVGYGIRKMQICQVVEDDKVG TDLLEEITKFEHVQSVDI AAL
22832	53200	A	22963	3	482	PWANEAPAKK/PATPAEG/DAR DDIDLFGSDNEEEDKQAGHS CGEERLRYHAGEEGPRKPAL/ VWPKSLPSLLDV/KPWDDDDGP WPSLEACVRSIQLDGLVWGGF PSLVPVGYGIRKLQICQVVED DKVGTDFPWRREITKFEEARA RSVDIASFSTRS
22833	53201	A	22964	1	2835	
22834	53202	B	22965	571	1337	
22835	53203	A	22966	1	489	
22836	53204	A	22967	1	618	
22837	53205	A	22968	3	5227	SWSRVRPRTRPEGLRQLKMRT GWATPRRPAGLLMLLFWFFDL AEPSSGRAVNDPLTIFHGNTGKC IKPGYGWIVADHCDETEDKLW KWVPQHRLFHLHSQKCLGLDIT KSVNELRMFSCDSSAMLWWKC EHHSLYGAARYRLALKDGHGT AISNASDVWKKGGSEELCDQP YHEIYTRDGSNSYGRPCFEFFLID GTWHHDCLDEDHNGPWCATT LNYEYDRKWGICLKPENGCD NWEKNEQFGRCYQFNQT
22838	53206	A	22969	3	453	GQSPILVIYHETKRPSGISERFSG STSGNTATLTITGTQAMDEADY YCQAGRDFGGGTKLTVLGQPK AAPSVTLFPPSSEELQANKATL VCLISDFYPGAVTVAWKAHSN PVKAGVETTPSKQSNKYYAA SSYLSLTPEQ*KSHRSYSC
22839	53207	A	22970	2	354	
22840	53208	A	22971	1	315	

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22841	53209	A	22972	1	712	MAWTLFLTLTQTGTGWSWAQS ALTQPASVSGSPGQSITISIGTS SDIGAYYFVSWYQQYPGKAPK LLIFDVSGRPSGSSRFSGSKSGN TASLTISGLQAEDEADYYCASY ARSTTVFGGGTSVTVLQGPKA APSVTLAFPSSSEELQANKATLV CLISDFYPGAVKVAWKADGSP VNAGVETTTPSKQSNKYYAAS SYVYLSLTPEQWKSRSYSCQV THEGSTVEKTVAPTECS
22842	53210	A	22973	1	1779	
22843	53211	A	22975	1	2001	
22844	53212	A	22976	292	1497	TGQLNGFHEAFIEEGTFLFTSES VGEHGPDKICDQISDAVLDA HLQQDPDAKVA/CETVAKTGM LLVAGEITSRAAVDLPRKVVRE SCLNTLEYDDSSKGF*LQRLVN VLVALEQQSPDIAQGVHLDRNE EDIGAGDQGLMFGYATDETEE CMPLTIVLAHKLNAKLAELRRN GTLPWLRPDSKTQTVTVQYMQD RGAVLPIRVHTIVISVQHDEEVC LDEMRDALKEKVIKAVVPAKY LDEDTIYHLQPSG/RTFVIGGPQ GDAGLTGRKIIIVDTYGGWGA HGG/GAFSGKDYTKVDRSAAY AARWVAKSLVKGGLCRRVLV QVSYAIGVSHPLSISIFHYGTSQ KSERELL*IVKKNFDLRPGVIVR DLDLKKPIYQRTAAYGHFGRDS FPWEVPKKLIY

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22845	53213	A	22977	67	1579	FFVRSLSHTDTNMNGQLNGFHEALIEEGTFLFTSKADGEGHPDKICDQISEAVLD AHLHQDPDAKVACETVAKTG MILLAGEITSRAAVDYQKV VREAVKHIGYDDSSKGF DYKTCNVLVALEQQSPDI AQGVH LDRNEEDIGAGDQGLMFGYATDETEECMPLTIVLAHKLNAKLAE LRRNGTL PWLRPDSKTQVTVQYMQDRGAVLP IRVHTIVISVQHDEE VCLDEM RDALKEKVIAKAVVP AKYLD EDTIYHLQPSGRV FVIGGPQGDAGLTGR IIVDPYD GWAHEEGAFSGKDYTKVSRSAAYGARWVARS L VKGGLCRRVL VQVGP PPKPDEDL YLECEPDPVLAL TQTL SFQVLMPSGPLPRTSVVPREQQMLPLKDSDLTQWPWYSGNCDRYAVESALLHLQKD GAYTVRPSSGPHGSQPFTLAVLLRGRVFNPIRRLDGGRHYALGREGRNREELFSSVAA MVQHFMWHPLPLVDRHSGSRELT
22846	53214	A	22978	3	325	
22847	53215	A	22979	15	1014	
22848	53216	A	22980	7	592	LLCSGRHSLQGVMGILSFLPVLATESDWADCKSPQPWGHMMLLWTA VLSLAPVAGTPAAPPKAVLKLEPQWNV LQEDSVTLTCRGTHSPESDSIQWFHNGNLIPHTHTQPSYRFKANNND SG EYTCQTGTQTSLSDPVHLTVLSGQWRKAPGWTWEGQDG*NL LSGRGLQERGVACLLGSIASVCLSTYQWLF L P
22849	53217	A	22981	32	1150	EKA VTA VLWAPARLQGVMGILSFLPVLATESDWADCKSPQPWGHMMLLWTA VLSLAPVAGTPAAPPKAVLKLEPQWINGGSRSDSVTLTCRGTHSPESDSIQWFHNGNLIPHTHTQPSLQVSRANNNDSGEYTCQTGTSLSDPVHLTVLSEWLVLQTPHLEFQEGETIVLRCHSWRDKPLVKVTFPHNGKSKKFSRSDPNFSIPQANHSHSGDYHCTGWNIGYTL L FIPRLLTITVQAPSSSPMGIIVAVVTGTAVA AIVAAVVALIYCRKKRISANPTNPDEADKVG A ENTITYFTSQWHPGWLWEEPPDQNRILVSI VLA LGIWRRNSEREDLVFPGLKFPLGEDTGRCCQFPKEKVLPGVIL

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22850	53218	A	22982	1	471	MKSSFQGHNKEKREKKGPSLFS AAYGGGSCLLLSIMAAALRPLVK PKIVKKRTKEFIWHQSDQHVKI KCNWRKPRGQILMPNTGHGNS /KKT K H M L P S G F R K F L V P S V K E L E V L M C N K S P C A E I A H S V S S K I N K T I V E R A A Q / L A V R V T N P N A R L R S E E N E
22851	53219	A	22983	103	564	GIFRGIMAAALRPLVKPKIVKKR TKKFIHQSDRYVVKIKRNWRKP RGIDNRVRRRFKGGQILMPNIGY G/SNKKTKHMLPKWLSGKFLG SHQRSREL/EKLLA*CCNKFFTC CPRFVSHCFSGFTGKGLRGER SLPNWAFRVTPNPANRLRSEENE
22852	53220	A	22984	3	177	
22853	53221	A	22985	74	735	RFAGAGAIPEARARPPDVQAAE EEKEMDLPDSASRVF/CGDASS NMGEHRMNVNAIL/AQKNML D/RFEKTNEMLLNFNNLSSARL ASRLSERFLHHTRTLVEMKRDL /DSIFRRIRTLKGKLARQHPEAF SHIPEASFLEED/EDPIPTQAPT TTIATSE/QSTG/SCDTSPTDV/S PSLEPLASEDSLHVQALASPAI NGPQPDQIDEEMTGRIALPARC
22854	53222	A	22986	3	275	MRTVAEKVDVAVRVVHIHVSNTL RRSDKRKDRVEISPEQLSAAST EAERLAELTGRPMRVVGVYHVS HPHITVWPSHVGVYHGVAMFI VFRN
22855	53223	A	22987	1	886	AKMAVQVVQAVQAVHLESDA FLVCLNHALSTEKEEVMGLCIG ELNDDTRSDSKFAYTGTEMRT VAEKVDVAVRVVHIHVSIIIRSD KRKDRVEISPEQLSAASTEAE LAELTGRPMRVVGVYHSHPHI TVWPSHVDVRTQAMYQMMDQ GFVGLIFSCFIEDKNTKTGRVLY TCFQSIQAQKSSEYERIEIP/IHIV PHVTIGKVCLES/AVELPKILCP/ QEEQDAYRRIHSLTHLDSVTKI HNGSVFTKNLCSQMSAVSGPLL QWLEDRLEQNQQHQLQEL/HQE KEELMQELSSLE

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22856	53224	A	22988	10	988	LKAMSWAKMAVQVVQVAVQA VHLESDAFVLCLNHAI STEKEE VMGLCIGELNDDTSRSDSKFAY TGTEMRTVAEKVDAVRVHIHS VILARRSDKRKQVEISPGQLSA ASTEAEKLAELTGHPMRVVGW YHSHPHITVWPSHVDVRTQAM YQMMDDQGFVLGFSCFIEDKNT RAGRVLVYTCFQSIQAQKSSEL HGPQDFWSSSQHISIEGQKEEER YERIEIPIHVPHVTIGKACLES VELPKILCQEEQDAYWRIHSLT HLDVSVTKIHNGSVFTKNLCSQM SAVSGPLLQWLLEDRLQNQQH LQELQKEEELMQLSSLE
22857	53225	A	22989	1	1362	
22858	53226	A	22990	284	542	KLFQKKNKKSSCISDNFFFLAI MVNLLQVVRDHWVHVVLVPM GFVIGCYLDRKSDERLTAFRNK SMLFSFPHRELQPSSEVTWK
22859	53227	A	22991	272	1241	FPGGAACDICVWKEENGSLMS MKMGWKA KSCLPVTVHPRCL TPYSARLSSTFPL*NSITG*QS PACKRPF*LTTC*GGSRRNSNR KAA*GPCSPPPSPPPSPATLPR GPAGLQPPGPVLPPLRPKHY APGGLPAPPASLLEDDDDTFCTS QAMQPTAPTKLSPPALLPEKDS FSSALDEIEELCPTSTSTEATA ATDSVKGTSSSEAGTQKLDGPQE SRADDSKLMDSLPGNFETTST GFLTDLTLDLIFADIDTSMYDF DPCTSSSGTASMAPVSA DDL KTALPYSSQPVTPSQPFKMDLT ELDHIMEVLVGS
22860	53228	A	22992	1	3234	MELKCVCLKNRSPSAEEQPSLL PEPSAQESHGGHPRSALYGRER LTGQPPSSPHNPAPWASCPAVI DPVPIYSSVAEAYDSGTGEGTPT PGLRHHVESGSLRATAQLRPPER RV/QQRTTAPPPRQPPRRPLRAS LSAAPPEPREPVVAAGPEPGSL QRPARTALPNRPEPQAASPGTL VEKYAAPVATQDLLDENPCTS RLGVVDLQAVLTLRKLENLRS GAQTPLEGGQSGRVPHALRW NRGEEEGERLLC
22861	53229	A	22993	307	1906	
22862	53230	A	22994	1	1752	
22863	53231	A	22995	588	704	

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22864	53232	A	22996	3219	3407	DQVVVTKRIQDAILVLV*EFL HSPALRLCVMKQVGMSSQGELE WGQFLKLSSRNKRKRSGERI
22865	53233	A	22997	1	588	
22866	53234	A	22998	1	917	
22867	53235	A	22999	1	1692	
22868	53236	A	23000	1	2266	MKRIRDYYERSHANNLDNLEE MDELLETHNLPGLNHEETENLN KPTTSLSLAGVSSTKKNTKNE LSIVLPFTGSILPVGFATRPRGL ASSNPILLHMFVFLFANGTEEL PVPLMTPTROKKVIPLPLMVG LGVSASTIALGTGITGISTSVTTF RSLSNDFSASITDISQTLVLAQ LVDSSAAVVLQQLRGLDLLT AEKGGCIFLNEECFYLNQSG LVYDNIKKLKDRAQKLANQAR QNLDMLHGTGMKSDSDQKKS ENGVTLAPEDTLPLKCYCSGH CPDDAINNTCITNGHCAIIEED DQGETTLASGCMKYEGSDFQC KDSPKAHVVRTIECCRTNLNCQ YLQPTLPPVIGVFPFDGSIRWL LLISMAVCIIAMIISSSCFCYKH YCKSISSRRRYNRDLEQDEAFIP VGESLKDLDQSSSGSGSLPL LVQRTIAKQIQMVROVGKGRY GEVWMGKWRGEKVAVKVFFT TEEASWFRETEIYQTVLMRHN ILGFIAADIKGTGSWTQLYLITD YHENGSLYDFLKCATLDTRALL KLAYSAAACGLCHLHTEIYGTQG KPAIAHRDLKSKNILKKNKSGCC IADLGLAVKFNISDTNEVDVPL NTRVGTKRYMAPEVLDES LNK NHFPYIMADIYSFGLIIEWEMA RRCITGGIVEEYQLPYYNMVPS DPSYEDMREVVCVKLRPIVSN
22869	53237	A	23001	68	636	GVTSNPKALLGALIAPAFASLPE GRGKRIQALNMFPRKNSWRLG LKYPPSSKEKTQVPKTLISGLPE RKSTTRVGEKLQSAHKMPLSPG LLLLLSFGATATA/APLPLEGGP TGRDSEHMQEAGIRKSSLLTF LAWWWFWTSQASAGPLIGKEA REVARRQEGAPPQOSARRDRM PCRNFFWKTSSCK
22870	53238	A	23002	1	144	GIRLPSSADWQKTEAQKRREQL LLDELVALVNRKDALVRDLDA QEQQ

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22871	53239	A	23003	2	667	RWNSSDPDADRTTLNHADHSS KIVQHRLLSRQEELKERARVLL EQARRDAALKAGNKHNTNTAT PFCNRQLSDQQDEERRRQLRER ARQLIAEARSQVGMSELPPYVG EMAAEKLKERSKASGEQNSKL VDLKLKLLLEVQPQVANSPPSSA AQKAVTESSEQDMKSGTEDLR TERLQKTTERFRNPVVFSKDST VRKTQLQSFQSYIENRPEMKRQ RSIQED
22872	53240	A	23004	1	1437	
22873	53241	A	23005	1	2009	MAKPYLYKKYGNQQGVAAIPD VPAAWEAEPSPIPSVPLGRKPN ASQSLLVWCKEVTKNYRGVKI TNFTTSWRNGLSFCAILHHFRP DLIDYKSLNPQDIKENNKKAYD GFASIGISRLLEPSDMVLLAIPD KLTVMTYLYQIRAHFSGQELN VVQIEENSSKSTYKVGNYETDT NSSVDQEKFYAELSDLKREPEL QQPISGAVDFLSQDDSVFVND GVGESESEHQTDDHLSPTAS PYCRRRTKSDTEPQKSQSSGRT SGSDDPGICSNSTDSTAQVLLG KKRLLKAETLELSDLYVSDKK KDMSPPFICEETDEQKLQTLDIG SNLEKEKLENSRSLCRRSDPESP IKKTSLSPTSKLGYSYSRDLDA KKKHASLRQTESDPDADRTTL NHADHSSKIVQQDEERRRQLR ERARQLIAEARSQVGMSELPSY GEMAAEKLKERSKASGDENDN IEIDTNEEIPGFVVGGDDELTN LENDLDTPEQNSKLVDLKLKLL LEVQPQVANSPPSSAAQKAVTES SEQDMKSGTEDLRTERLQKTTE RFRNPVVFSKDSTVRKTQLQSF SQYIENRPEMKRQRSIQEDTKK GNEEKAAITETQRKPSEDEKGF KDTSQYVVGELAALENEQKQI DTRAAALVEKRLRYLMDTGQNL

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22874	53242	A	23006	145	3217	LDEYEARLTLANLDDFEEDNED DDENRVNQEEKAAKITEINKL NFLDEAEKDLATVNSNPFDDPD AAELNPFGDDPDEEPITETASPR KTEDSFYNNSYNPFKEVQTQ YLNPFDEPEAFVTIKDSPQSTK RKNIRPVDMSKYL YADSSKTEE EELDESNNPFYEPKSTPPNNLVN PVQLETERRVKRRKAPPVLS PKTGVLNENTVSAGKDLSTSPK PSPIPSVLRKPNASQSLLVWC KEVTKNYR
22875	53243	A	23007	1	165	RPAAPRHERRPAADHGHHRPEP GRGTGQKACSELPDEACS/GIA IG*SLACSACSVRSRRKQW
22876	53244	B	23008	26	625	
22877	53245	A	23009	325	526	
22878	53246	A	23010	1946	2224	LLQWRHGLNPNINSYNSPILPV QKPKDPYRLVQHLCLIQIVLPI HPMVNPNPYTLSSIPFTTHYSVL DLKHAFFTIPLYPSSQPLFAFTW TDPDTHQAQITLAVLPQCFIDS PHYFSQAQISSSVTYLGILMK THIGLGAVEQGVVLVGEARAA QEPMEWVGSGSMVGCRRALP RGKAAKARREIERSAVTIVPVL DFNPAFHIIPTTDPDHDCISLIH LTFTPPHISFFVPVPHLEHTWFD GSSTR
22879	53247	A	23011	1	1479	MEENFIRVFVTTTTMLLLIALIK QGELCESFDGKSLDGRDENVVI CFDAAAGLHRACSRGEQQNL GTHYFTWQRLFAEVIKLGGLM KPKARNASSLWKEKTKNGFFS LETPEERQTSDLHKYQLAFRLF FIKYKNPAQFMAHLATTLRHFT ALDPESHNFQNLFSSSHLMHIL SAPRLRLYSRFEVSTVITVPG PDFNPASNIPDTTPDPHDCISLI HLAFTPPFYISFFVPVPHDHTWF IDGSSTRPNCHTPAKAGYAIYSS TSIEATALPPSTTSRQAEIALT QALTLAKGLRINIYTD/SHILHH HAYLWA/E/RGFLTMQGSIIINA SLIKTLLQAALLPKEAEVIHCKG HQKASDPITQGNAYADKVPSL AHAPTLLAPVLQCPRLREVAGT EDDNGKAVLEIPSNIRKSAHVP VQTWKGWDPNTLLGGWFSNL GGFKTLVGTVIFIGFLFLPCVI PRIIKAIKLVETTYSRQIIQTILL

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22880	53248	A	23012	854	1777	
22881	53249	A	23013	27	496	
22882	53250	A	23014	117	210	
22883	53251	A	23015	124	414	
22884	53252	A	23016	3	627	
22885	53253	A	23017	1	567	
22886	53254	A	23018	44	551	GGGRRSAPLQLGFMSRQAKDD FLRHYTVSDPRTHPKGYTEYKV TAQFISKDPEDVKEVVVWKR YSD\FRK\LGHD\LAYTHRNLF\RL RLEEFPAFPRAQ\VFGRFVASV DSRER\KGAEDLLRFTVHIPAL NNSPQLKEFFRGGEVTRPLEVS RDLHLPPPLIPTPPPG
22887	53255	A	23019	25	488	
22888	53256	C	23020	9	119	
22889	53257	A	23021	52	241	
22890	53258	B	23022	4	402	
22891	53259	A	23023	249	984	GSTMYKMNICNKPNSNKAPEK SVWTAPAQSPGSPSELQGGQRSR RNGWSWPPHPLQIVAWLLYLF FAVIGFGLVPLPHHVVVPAGY AVSLGKRRAGPWNPLSVSAET ILPQCMGAIFAGHLVVHLTAVS IDPADANVRDKSYAGPLPIFNK SQHAHVIEDLHCNLCNVDSVA RSKHCSACNKCVCDFDHHCKW LNNCVGERNYRLFHVSASALL GVLLV/LGGHICLRGVLCQPH ASAHQPTL
22892	53260	A	23024	2	224	
22893	53261	A	23025	111	1368	QQPSGSGALARGSGLPPRGRL PARSPVQKRKGWPVKGRKRN PRDLAVRVPTTGYMIFLNEQRS QLRATHPDLPTFTEIMKMLAVQ WAQLSQDKKGRKYAGKALGV TPPPSALTVPYALIEPKQLDIQSL PFQPIDLRLKIKDKRQLVPSYLG GMHTVTEGLAGRVLLQQVQ GGAWESAFLTCPWAMAAAAP GPTLTMQLQPSISAVGFSQMAMG PHVQGRASKLSIYVNPRLRLST TTAMGDELNDLYCGTSRQLFSS LCNKKEPAAKAAAPLSSPGP PALGHAGHGRQLLERSLTLFH LYELLKYPRASPLWPPRVWM PHSLTCGTFVWPMIMMRFAH VASGLLRPPFNQVFAHLSPAQG RHPGENGIIVLTSRAAVRIRCSS CSRSLTGNLKKILPRTQSTWSL WRKRRDK

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22894	53262	A	23026	2	405	
22895	53263	A	23027	1	391	
22896	53264	A	23028	3	463	
22897	53265	A	23029	74	466	FAFNMPEPAKSAPAPKKGSKK AVTKAQKKDGGKKRKRSEY SVYVYKVLQVHPDTGISSKA MGIMNSFVNDIFERIAGEASRL AHYNKRSTITSREIQTAVRLLP G\ELAKHAVSEGT\AVTKYHQ
22898	53266	A	23030	168	597	KEETDFLWFCHYCFIMPELAK SAPAPKKGSKKAVTKAQKKDGG KKRKRSEYSVYVYKVLQV VHPDTGISSKAMGIMNSFVTT F\ERIAGEASRLAHYNKRSTITS REIQTAVRLLPGELAKHA\VSE GTNA\VTKYTSSK
22899	53267	A	23031	18	321	FTATWLNQEVGIVGKYRTRYG VSLQKMVKKIEISQYAKYICF LWQNSKMKRAVGIWCCG/SCM KTVKSSSRNHIVWTYNTTSAV TVKSTIRLKLQKDQ
22900	53268	A	23032	12	445	FTCRSHVSEVEERCVEAPLLG SRSTGTGSLHKSQAKRTKKVGIV \GKYGNPLWGP\SLR\KMKVKK\IE ISQHAQVHFALFCGKTKMKRR AVGIWHCGSCMKTV\AGGAWT \YNTTSAVTVKSAIRLKEFERP SRTLLYSLRSLGL
22901	53269	A	23033	3	175	
22902	53270	C	23034	378	434	
22903	53271	A	23035	1	578	MVRCVRLVEAGSVVRYLSTIC RPVVDAGSRALCLQEWADSQQ VKEKQYSSRDVQRAALNIYRI PPSSRKPALCPTPRDRLEYDEDR LEHIAVVRARELHLEVTGLET VAQSKAHIVASLEGLIPEDKVVL LAGSPLQNEATLGQCGVEALT LEVVGRRLGASL/HTSASKHTM VRALTYCSSREETFTAI
22904	53272	C	23037	236	379	
22905	53273	A	23038	178	534	VVQKTEPLRCFAVSPFSCSLPL PSLFPHSPLLGRPKRQAKPAAD EGFWDCSVCTFRNSAEAFKCSI CDVRKGTSTRYLKICVTWVVV VI*QVFIHTAICALGVQWYKD RPGPCSYGA

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22906	53274	A	23039	44	1012	VGGGGVQPSMTMGDKKSPTRP KRQAKPAADGEFWDSCVCTFR NSAEAFKCSICD\VRKGTSTRKP RINSQLVAQQVAQQYA T P P P P K KEKKEKVEKAGQKRKPEKRPR KFSP/SVVTKKNTNKKTKPKSD\ ILKDPSP\EANSIQSANATTKTSE TNHT\SRPRLEKRG TG G I A Q Q F G QLTVGNVTVITDFK\EKTRSS\ TSSSTVTS\SAGS\EQQNQRQLR GFRGATDKGSLPVPPNPKGRPC QAVNDESFLKLAHGNCGLWN SGVWKFNLPAAHACLPWEN LSCGTSTSLVDCQDNFLLCHG HSWPPRDFRHPDDYSGHF
22907	53275	A	23040	1	626	MAGCRNPCKAESHRSKSLSEA ESLFREAESQHDGSGKNAGHR DESVEVWLSLSSSQTRAEIER QSRGKQWLRHLLRDTGPKET VRPELATRAAMDVAEVEFLAE KELVTIIPNFSLDKSYLIGVDNIP KADEIRTLVKDIWDTRI AKLRV SADSFVRQGEAHAKPDNLTL M EINPSGTFLTQALNHITYK/LRTN LQPESTQSQDF
22908	53276	A	23041	1	951	MDAAEVEFLAEKELVTIIPNFSL DKIYLIGTWELKYREIRWLSQG PHGKPHADPGSSILQNSSGPGS VRTNGKSKPWEPFVAEEFAHQ FHESVLQSTQKALQKHGGSVA VLSAEQNHKVDTSVHYNIPELQ SSSRAPPQHNGQEPPTARKG PPTQELDRDSEQE Q E E D D E D G E DEEEVPKRKWQGIEAVFEAYQ EHIEERTLERNRSSTAADKAQL LAANRQGHGQPTDPAASNIPKA DEIRTLVKDMWDTRI AKLRV ADSFVRQGEAHAKPDNLTL M EIHTSGITFLTQALNHMYKLRT NLQPLESTQSQDF
22909	53277	A	23042	1	626	MAGCRNPCKAESHRSKSLSEA ESLFREAESQHDGSGKNAGHR DESVEVWLSLSSSQTRAEIER QSRGKQWLRHLLRDTGPKET VRPELATRAAMDVAEVEFLAE KELVTIIPNFSLDKSYLIGVDNIP KADEIRTLVKDIWDTRI AKLRV SADSFVRQGEAHAKPDNLTL M EINPSGTFLTQALNHITYK/LRTN LQPESTQSQDF

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22910	53278	A	23043	2	642	RPRRLRLDAEGPEETVRLWPAA RAAMDAAEVEFLAEKELVTIIP NFSLDKIY\IGGDLGPFNPGLPV EVPLWLAINLKQRQKCRLLPPE WMDVEKLEKMRDHE\RKKEET TPMPKPF\TTLELT\KLLLNHASD NIPKQDEIRTLVKDMWDTRIAK LRVSADSFVRQGEAHAK\DN LTVLMEIHTSG\TFLTQALNHMY KLRLTNLQPLESTQSQDF
22911	53279	A	23044	3	1038	TSSMAAGCSEAPRPAAG\SDGS LVGQAGVLPCELEPTYAAACA LVNSRYSCLVAGPHQRHIALSP RYLNRKRTGIREQLDAELLRYS ESLLGVPIAYDN\IKVVGELGDIY DDQGH\IHLNIEADVF\FCPEPGQ KLMGIVN\KVSSSHIGCLVHGCF NASIPKPE\QLSAEQWQTMEIN MGDELEFEVFRLLSDAAGVFCI RGKLNITS\QFKRSEVSEEVTE GTEEA\AKPKKKKKKKDPETY EVDSGTTKLADDA\DDTPMEES ALQNTN\NANGIWEEEPKKKKK KKKH\QEVSR\TQDPCFSQQQLT S\SGYQSDHKKKKKKRKHSEEA EFTPPLK\CSPKRKGKSNFL
22912	53280	B	23045	82	323	

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22913	53281	A	23046	3	1624	QLEIRAPTADEIHVTVGAEARNLI PMDPNGLSDPYVKLKLIPDRN LTKQKTRTVKATLNPVWNETF VFNLKPGDVERRLSVEVWDWD RTSRNDFMGAMSGVSGSELLKA PVDGWYKLLNQEEGEYYNVPV ADADNCSLLQKFACNYPLEL YERVRMGPSPPSPSPPTDPK RCFFGASPGRLHISDFSLMVLG KGSFGKVMLEARRGSDLEYAI KILKKDVIVQDDVDCTLVEKR VLALGGRGPGGRPHFLTQLHST FQTPDRLYFVMEYVTGGDLMY HIQQLGKFKEPHAAFYAAEIAI GLFFLHNQGHYRDLKLDNVML DAEGHIKITDFGMCKENVFPGT TTRTFCGTPDYIAPEIIAYQPYG KSDVWWSFGVLLYEMLAGQPP FDGEDEEELFQAIMEQTVTPK SLSREA VAICKGFLTKHPGEAP GASGP*WGNLTIRAHGFFPLGF DWERLERLEIPASFSPRPPCGRS GENFDKFFTRAAPALTPPDRLV LASIDQADFQGFITYVNPDFVHP DARSPTSPVPVPM
22914	53282	A	23047	1	1522	MLRAPRQATRDRHHFAHIDIVQV TCFRYLRRSALAPAPAMPSPVR VDRGSFPVPAGGNHTRRRGGTTP QEGVTREALAFFDVVATTGAE MMWSNFFLQEENRRRGAAGR RAHGQGRSGLTPEREKVKLA LLLAAWAPRWRCPPWAPSSG WTQHLQGRQRRVRSQPTWG CGRRAPSGCGRRTCPWTGTPA APRSCPEASERNSEHPALICTLP QPHMLKRRARRAPGSMAPPLP RPPQAASVPVFPDPWEPLSRA RSKSPLHSQHRPAQETGRHSRP RTSTRKQKQKSTEKATHTPER APKQPTRENNPKGRAQGSAPR DHNPA SRHQKTSNDKRSTHDT HKTRKDSQTRKKKTRNNEKQK PDR/IGPQIIAYQP/YGKSDVWW SFGVLLYE/MLAGQPP/FDGEDE EELFQAIMEQ/TVTPKSLSREA VAIC/KGCGRSGENFDK/FFTRA APALTPPDRLV/LASIDQADFQGF ITYVNP/DFVHPDARSPTSPVPV PASSPTRPQLLENKFGC

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22915	53283	A	23048	505	2345	SIWGMVMNPTSSITLRRMM SLFPASLTTKYGGFYINSGTLQF RQASESEDDFIKEKKKKSPKRR KLKEGGKIKKKKKDDTYDKE KKSCKSKFSKAGFTALNASKEK KKKKYSGALSVKEMLKKFQKE KEAQKKREEEHKPVAVPSAEA QGLRELEGASDPLL.SLFGSTSD NDLLQAATAMDSLTDLDLEHL LSESPGSPFRDMDGSDSLGV GLDQEFRRQPSLPEGLPAPLEKR VKELAQAAARAAGESRQKFFT QDINGILLDIEAQRELSSQVRS GVYAYLASFLPCSKDALLKRA RKLHL.YEQGRLKEPLQKLKE AIGRAMPEQMAKYQDECQAHT QAKVAKMLEEEKDKQORDRIC SDEEDEDKGGRRIMGPRKKFQ WNDEIRELLCQVVKIKLESQDL ERNKKAQ\AWEDCVKGLDAE VKPLWPRGWMQARTLFKESRR GHGHLTILAKKKVMAPSKIKV KESSTKPKKKVSVPSQIGGPIA LPSDHQTGGLSIGASSRELPSQA SGGLANPPPVNLEDSDDEDLIR NPASSVEAVSKELAAALNSRAAG NSEFTLPAPSKAPAEKVGGLVC TEEKRNFAKPSPSAPPPASSLQS
22916	53284	A	23049	1	379	AYRNFTSASDVWSYGIVMWVEV MSYGERPYWDMSNQD\PN TAL LDPASPEFSAVVSVDWLQAIK MDRYKDNFTAAGYTTLLEAVVH VNQEDLARIGITAITHQNKLSS VQAMRTQMQQMHGRMPV
22917	53285	A	23050	1	123	
22918	53286	A	23051	3	221	
22919	53287	C	23052	80	379	
22920	53288	A	23053	71	924	AFSVNSSNSWEKA*SQKCLQV NYLSLSSASYLP/CMTCPPSAPL NLISNVNETSVNLEWSSPQNTG GRQDISYVNVCKKCGAGDPSK CRPCGSGVHYTPQQNGLKTTK VSITDLLAHTNYTFEIIWAVNGV SKYNPNPDQSVSVTTTNQAAP SSIALVQAKEVTRYSVLAWLE PDRPNGVILEYEVKYYEKDQNE RSYRIVRTAARNIDIKGLNPLTS YVFHVRARTAAGYGDFSEPLE VTTNTGKNDHPDVSVTSEAFIIQ LNPI TVKSKELSVIFGSADILLQ

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22921	53289	A	23054	1	1102	MRWLKKWERKYTLYESGVLK HKNLLESLLGQFLGPPAQRFD AGGVRPKNDGRFTVIQLVGM RGIGSGMKYLSDMSYVHRDLA ARNILVNSNLVCKVSDFGMSR VLEDDPEAAAYTRGGKIPIRWT APEAIA YRKFTSA/SDVWSYGIV MWE/VMSYGERPYWDMNSQD VIKAIEEGYRLPPPMDCPIALHQ LMLDCWQKERSDRPKFGQIVN MLDKLIRNPNSLKRTGTESSRP NTALLDPSSPEFSAVVSVGDWL QAIKMDRYKDNFTAAGYTTLE AVVHVNQ/EVSTQRCNTKGDL ARIGITAITHQNKILSVQAMR TQMQQ/MHGRMVPRLSTVLNK LKTLEISLPHPCTLIEELHFFNFV
22922	53290	A	23055	148	3229	NAFRFHLLNPAGESHDLQDLL SAVRSPTKRQEQRWHRRTMAG IFYFALFSCFLGICDAVTGSRVY PANEVTLDSRSVQGELGWIAS PLEGGWEEVSIMDEKNTPIRTY QVCNVMEPSQNNWLRTDWITR EGAQRVYIEIKFTLRDCNSLPG VMGTCKETFNLYYESDNDKE RFIRENQFVKIDTIAADESFTQV DIGDRIMKLNTEIRDVGPLSKK GFYLAQDVGACIALVSVRVFY KKCPLTVRNLAQFP
22923	53291	A	23056	57	450	VGDCLTSRGMWSVQATLLAR/ ALCRAWGGT/CRGALTGTISIQ VPLAPRGLHCSA/ASVSSEQS LVPSPEPRQR/PPGGERDKASF LQTVQKFADTSVVD SGHIDFIY LALRKMREYGVVERDLAVYNQL LNIFP

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22924	53292	A	23057	89	1502	VGDCLTSRGMSVWQATLLARG LCRAWGGTCGAAL/SQEPPLSR SLASLPRGLHCSAAHSSEQVL VPSPPPEPRQEGPPRLVPFEGPV LGQAGLGERGQGRAFL/LDGC RNLRTTSVRKRGPII/VDLFYLA LRKMREYGVVERG/DLAVYNQL LNIFPKVFPRNIIQRFVHYPR QQECGLAVLEQMHGVMMPNK ETEFLLIQIFGRKSYPMCLKVRL KLWFPFRMNVNPFVPRDLPQD PVELAMFGLRHMEPDLASARVTI YQVPLPKDSTGASKIPPKPHIVG HRACMSPHQESKKSRSSKAAL ARHNPSIRPVFVEGPFSLWLRN K\CVYYHILRA\DLLPPEEGK WKRTPEEWELYYPRQLDLEY VRSWWDNYEFDINEVEEGPVF AMCMAGAHQVATM/VKWNQ GPAGDQFQTLAQNPWSPFRLRR VQPGELPDILLQGWSP/HPAR GPPRKKTTTCKRQQQGPPELV
22925	53293	A	23058	1	2517	
22926	53294	A	23059	1	927	IIVVEFVSRGLARAPSGPAVFSH LAMARLPLRGVVRWGCLLTAVH PEPPTACREKQYLINSQCCSLCQ PGQKLVSDDCTEFTETCLPCGE SEFLDTWNRETHCHQHKYCDP NLGLRVQQKGTSETDTICTCEE GWHCTSEACESVLHRS CSPGF GVKQIATGVSDTICEPCPVGFSS NVSSAFEKCHPWTSCETKDL/V VQQAGTNKTDVVCQPDRLRA L/VVPIIFGILFAIL/VLVIKKV AKKPTNKAPHPK/Q/EPQEIFP DDLPG/SSNTAAPVAGRIFTWG GQPV/TQEDGQRESHFSCRERQ
22927	53295	B	23060	24	439	
22928	53296	A	23061	1	582	
22929	53297	C	23062	1	2607	
22930	53298	A	23063	248	430	ATNYTREQDSMWNVCVR*GRIT ATTHSVTQRTDERQRRADTAL TLADYRNTSVTGVFAGLF
22931	53299	A	23064	776	1426	
22932	53300	A	23065	284	598	VFRLLRGQKSEPGKSRPKAL*N KPANTPVQSHISLYAAGIINSDS KVR*SCRQSSARQSGSYL*TS SPONRQQTGEITATVIAFGRTTR TAPDITHPASAR
22933	53301	A	23066	3139	3792	

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22934	53302	A	23067	2	830	GVPNMAAPQDVHVRICNQEIV KFDLEVKALIQDIRDCSGPLSAL TELNTKVKEKFQQLRHRIQPVL YQRAFIWTASTFFFKLTYSLTDF SSTQHDFFNSPTTPVTFSDL ₁ EQL AKEQDKESENQLLLQEVENHK KQMLSNQASWRKANLTCKIAI DNLEKAELLQGGDLLRQRKTT KESLAQTSSITTESLMGSRMM AQVQVQSEAMQSLVTSSRTIL DANEEFKSMSTGTLGRKLITK YNNRRELTDKLLIFLALRLFLAT VLYIVKKRLFPFL
22935	53303	A	23068	1231	1458	
22936	53304	B	23069	1	2133	
22937	53305	A	23070	722	957	VFRLLRGQKSEPGQKQAKSTLE QTSEYPSNRGIPIRQSECSIRTP PFVRLARD*VRGCGCAPLSSVD SFFCCTEAL
22938	53306	A	23071	2	1137	VPNMAAPQDVHVRICNQEIVKF DL ₁ EVKAPIQDIRDCSGPLS ₁ AL TELNPVKVEKFQQLRHRTGP/ VEQLAKEQDKSEKQLLLQ ₁ EV ENHKK ₁ QMLQQFRPSWEGKLN SSPGKICNSDNLEKAELLQGGD LLRQRKTTKESLAQTSSITTES LMG/ISGRMMAQVQVQSEAM QSLVTSSRTILDANEEFKSMSTG TLGRKLITKYNNRRELTDKLLIF LALALFLATVLYIVKKRLFPFI VRFPKVPVLAPFNSLFGICPWF PEAPRLPKAAHTPLRFAPQLP CRLGWEHQCPPLFLQSSWL ₁ VK GEQSPWEEGPGIGMPPLGTYP PPSHHCALWEAAAAWSTLKSE PPRTRMPLSPAPIVPLNARSGG GKREER
22939	53307	A	23072	64	665	RVRGGAEALMAAAEEESGAP NVPNRRGGAGRPKTPFECNIC LETAREAVSVCGHLYCWPCL HQWLETRPERQECPCVCKAGIS REKVVPLYGRGSQEA ₁ RIPELK TPPPPPRGQR/PAPESRGGFQPF GDTGGFHF/SFGVGAFFP/GFFT TVFNAHEPFRRGTGVDL ₁ G/QG HPSLQLGKEFPLPGSAIFLFW

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22940	53308	A	23073	1	416	MQRRRRRL.L.L.PRRQTDRAL PPPPSPGSMPPPLPPP/PPARGG GLRPGDGLYPK/PSPARRGSGA RTSWCTMCAPPSTAPRASRRP RPSSCATRPPTSKPPPA/GHAPH PPPRDLGGGLDSGVQSDGVQLQ HLQRPGH
22941	53309	A	23074	1	1713	
22942	53310	A	23075	1305	1538	LKVKRNTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLLRCSKFR KLKAAAYRKRKKGHKSSLSLV KINKTAAANK
22943	53311	A	23076	49	355	
22944	53312	B	23077	253	471	
22945	53313	A	23078	1267	1497	LKVKRNTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLLRCSKFR KLKAAAYRKRKKGHKSSLSLV KINKTAAANK
22946	53314	A	23079	3	1237	HEVAGAVPGAIMDEYYGSAA EWGDEADGGQEDDSGEED DAEVQQECLHKFSTRDYIMEPS IFNTLKRYFQAGGSPENVQLLS ENYTAVAQAVNLLAEWLIQT GVEPVQVQDTVEYHLKSLLIK FDPRIADSMFTEEGETPAWLEQ MIAHTTWRDLFYKLAEAHPDC LMLNFTVKLISDAGYQGEITSV STACQCLEVFSRVLRTSLATILD GGEENLEKNLPEFAKMOVCHGE HTYLFAQAMMSVLAQEEQGGG AVRRIDQEVQRFQAEKTVLTQE AIITVKGVSLSYLEGLMASTIS SNASKTIVAAMSNLVPPELAN PENQFRVDYILSVMNVPDFDFP PEFYEHAKALWEDEGVACYE RSNEYQLIDCAQYIFVLEMQVP CEEAAQSHPGQHGGVQVGRN
22947	53315	A	23080	1358	1589	LKVKRNTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLLRCSKFR KLKAAAYRKRKKGHKSSLSLV KINKTAAANK
22948	53316	A	23081	33	458	GITGSDASGVTMKFNPFVSD RRKNRKRHVNPASHVRRKIMS SPLSKELRQKYNVRSMPIRKDD EVQVVRGHYKGGQIGKVVHV YRKKYVIYIERVQREKANG/DK DRKILERKAKSRQVGKEGK YKEELIGKMQEYIEP
22949	53317	A	23082	1	576	
22950	53318	B	23083	37	276	

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22951	53319	A	23084	124	549	NNSLSSPVQADVFFRLIVPFCG HIKGGMRPGKKVGVGMGIVDLN PKSFAINLTCGDSPPADGAIE LKAVFTDRQLLRNSCISGERGE EQVSNPLL SIHSTTMPFRVEILC EHMCFRIVFVDGHLDFYIIPH SNRYLAI
22952	53320	A	23085	1	215	QGFIKPLKEENFTLPPGKFGP PKGSLNSPPS/PSSP*SPGGGILL VYYLYRALFQKGCKEAAWLEY PLT
22953	53321	A	23086	533	983	PWGPGCNKRWPCLAKDPPTP QSSGVGQPFGAEPAGAYIRTG PHLGPPPPPPDSSNLHSPNPS DDGADTPLAQSDDEEERGDGG AEP/GVAASSGPLAYRDPAGY SPTSRPPGPSPEPLG/AEDPDSLL ASRAPRGNGWWDGCTLS
22954	53322	A	23087	1422	1670	NRVIDKTGWAWWLTPIRHF RPRWVDCLRLGVREQPGHSKI KSLQKNAKISQAWWHAPVDP ATWKADAGGSLEPGSLRLQ
22955	53323	A	23088	2	663	VLI.DERSAALDGAKRDGTAL AAGALCREARAAQVFFLKGGY EAFSASCPELCSKQ/INVSANCP NHFEHGYQYKSLCGMTTHKA DISSWFNEAIDFIDSIKAGGRV FVHCQAGISRSATICLAYLMRT NRVKLDEAFEFVKQRRSIISPNF SFMGQLLQLESQVLAPHCSAEA GSPAMAVLDRGTSTTTVFNFV SIPDHSTNSALSYLQSLITSSHC
22956	53324	A	23089	3	206	

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22957	53325	A	23090	982	2252	LFLEKRRPALGPENRQRAPOGR STLGALRPAMVMEVGTLDAG GLRALDLGERAAQLPACLDCRS FFAFNAGHIAGSVNVRFTIVR\
						RRAKGAIGALEHIVPNAELRIG RLLAGAYHAVVLLDERSAGLD GAKRDGTLALAAGRA/LCREA RAAQVFF/LSKGGYEA/FSASCP\
						ELCSKQSTPMGLSVLSLSTSVPD SAESGCSSCSTPLDYQGGPVE ILPFLYLGSAYHASKRD/MLDA LGHRLPWINVLSQIVPNHFEGH YQYKSIPIVEDNHKADISFWFN\
						EAIDFIDSINAGGRVVFHCQA GISRSAT\CLAYLMRTNRVKLD EA\FEFVKQRRSISPNFQLHGA SLLQFEFFRMLGPALFRAEAGK PRQMAVL\DRGTSTTTVFNFVP SIPVHSTNSALSVPFRAPLTDLS QLVERPTGR
22958	53326	A	23091	13	287	
22959	53327	A	23092	1	492	
22960	53328	A	23093	1	636	
22961	53329	A	23094	1	506	PTRTWTRGRIPRLSAQPSRGAR GTMADPRVRQIKIKTG\VKRL V\KEKVL\YEKEPKQ\QEEKIEKM RAEDGENYDIKKQAEIL\QES\R MMIPD/CQRR\LEAA\YLDLQRI LENEKDL/EKEAEYKEAR/LVL DSVKLESKLF\SYGVVFALKPR GPILQSIIFDHVLCVQV
22962	53330	A	23095	1	786	
22963	53331	A	23096	183	1059	VLGAFIWQGLDPSPETAFDTHR ATEWGTNDQSLCLNSP*\DAPS AKHEYQASVSGSVSSKPEIDLQ LYDEVDRQDVPVKRNFARIVV NVSDTNDHAPWFTASSYKGRV YESAAVGSVVLQVTALDKDKG KNAEVL\YSIESGSHPPYKTAAD VLLKAPPPGWRPTNTKPVHSTE AQPTQNQRTQQKHNGASRSP RHSFATSTRAGAGICGCKTRRW MTRWMEESRGLQTLPLSTRLEP GSSAAWLDPEEQASQLQSSQE APFLGEGGENHIKGVPHGTKE QQQPLNHRSSL
22964	53332	A	23097	1	1224	
22965	53333	A	23098	1	660	

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22966	53334	A	23099	129	595	LFPRLLSCLTTPPHCSFSICFVIC SRTLILKGSSLMYVFLCPNTAIV MALSPRGWRSKFGMPWHSKPT WIMTL*FPLEKTGALSLTSDTS MFTVVVLTLGGPLSEA*/T/GG NYDSHFDVDKGTGTIIIVAKPLD AEQKSNYNLTVEATDGTITILT
22967	53335	A	23100	1	1782	MAARIEVIHELIRLLLMKTDL DAATAALLNVQPAKSGDNTSG APFPGKISQTLKDPHNGYHV FALAGSPKADDDTSIYMFYQK VGDNSIDSWKNAGRKFSDSK FDANDPILKDQTEWWSGATFT SDGKIRLFYTDYSGKHGKQSL TTAQVNVSKDDTLKINGVED HKTIFDGDGKYQNVQGFIDEG NYTSGDNHTLRDPHYVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFRKESQKLQ SAKKRDAELANGALGIIELNND YTFEKSNEAADHFKHGGGATIK GRVADNGKPOLSSLTIDIRVIE ESIYPPAILPLEIFITASGEEYS VIGKIHATDQDVYDTLTYSLDP QMDNFLSVSSGGLIAHKKLD IGQYLLNVSVTDGKFTTADIT VHIRQVTQEMLNHTIAIRFANL TPEEFVGDYWRNFQALRANIL GVRNRNDIQVSLQSSEPHPLDV LLFVEKPGSAQISTKQLLHKINS SVTDIEEIIIGVRILNVFQKLCAG LDCPWKFCDEKVSVDSEVMST HSTARLSFVTPRHRAARQQIR GPPLHNPADT*TTARKYNCDKR
22968	53336	A	23101	184	13958	AMGRHLALLLLLLLFQHFQDGS DGSQRLEQTPQLQFTHLEYNVT QENSAKTYVGHVPVKMGVYIT HPAWEVRYKIVSGDSENLFKAE EYILGDFCFRLIRTKGGNTAILN REVKDHYTLIVKALEKNTNVE ARTKVRVQVLDTNDRPLFSPT SYSVSLPENTAIRTSIARVSATD ADIGTNGEFYYSFKDRDTMFAI HPTSGVIVLTGRLDYLETKLYE MEILAADRGMKLYGSSGSISSMA KLTVHIEQANECA
22969	53337	C	23102	56	331	

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22970	53338	A	23103	2249	2680	GEFLKTRFSIYFLEKYTTFPGE NLEHGFWDSSSTSPVLLHPGIPA SRJ/PVSSIFTKVPKKKSATKP/PV SIWGAPPLGPPGFWGCCPTGEQ RGVCHPSEPHPPVVDFRKKPPF LCVSLSLINIFKSNKFLLTTCNL VIFYTCSL
22971	53339	A	23104	739	1672	CQEAASEFGGLHTPAMFLRRL GGWLPWPWGRKKPMRPDPPYP EPRRDSSSENSGSDWDSAPET MEDVGHPKTKDSGALRVSRRA SEPSKEEPQVEQLGSKRMDSLK WDQPISSSTQESGRLEAGGASPK LRWDHYDSGGTRRPPVSPGG LGVPGPGAPLEKPGRRKLLG WLRGEPGAPSRVYLGGP EEC LQI STNLT LHLLELLASALLALCSR LRAALDTLGRGPLGLWLHGL LSFLAALHGLHAVLSLLTAHPL HFACLFGLLQALVLA VSLREPN GDEAATDWESEGLERE GEEQR GDPGKGL

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22972	53340	A	23105	122	2437	RLELKLPLWTMRFTMEMLLGH LSIFKITGKQKQLTRTAPGSPGQ LRSNQTTGNSLEPSGQPRSSQTT GNSLEPSGQPRSSQTTGNSLEPS GQPRSSQTTGNSLEPSGQPRSSQ TTGNSLEPSGQPRSSQTTGNSLE PSGQPRSSQTTGDSLEPSGQLRS NQTTGDSVQPNNREQPGTVRS APLQPNNREQPGTVRSAPLQPN NRGQRPTKQGGTTWNRQVSSA PTKQGGTAR/PSGQPRSNQTTG NSLEPSSQLRSNQTTGDSVQPN NREQPGTVRSAPLQPNNRGQR TKQGGTAR/PSGQPCSNQTTGN SLEPSSQLRSNQTTGDSVQPN REQPGTIRSAPLQPNNRGQRWD RQVSSAPTKQGTALGSPGSSAP TKQGGTALPSSQLRSNQTTGN SLEPSGQPRSNQTTGNSREPSQ LCSNQTTIGNSQDRQVSSAP/IQ TGNSQDRQVSPAPTKQGGTAG NRQVSS/PIQTGNSVQPNNREQ PGTVSGAM/VWVATPVKGP VETSAHKVSAAGLPKKKT/QPG VTGGAPRLTLNTLVLPKHSRTPS RHEAGSTQALYHNGQAQYALS FPHEAAPMAAFYVVTGIEVTTA LTLEEAPCTVEITALTLEEPPC TVFWNKTERNTRTLVQDKGSN TKGFVQTATCCFRADCKASRPS PHPPSPHREWTSDLRHKQVSKF PGAHLRPGHPELPIQEAWRGE
22973	53341	A	23106	605	813	LFVFINFRENALLRWAYAR/IT NVYPNFRPTPKNSMLMGALCGF GPLIFIYYIITKTERVSIQTRCLVF
22974	53342	A	23108	273	936	AYSNNKVPWSNQK/PSPTKPA GLIFDFPAVKTVRNKFVFFINYP VSGYTEDLKKFLKPYTLEEQKN LTVCPDGALEFQKGPVYVACQ SPISLLQACRGMNDLDFGYSQR NPCILVKMNRIGLKSEGVPRI DVSKNEDIPNVAVYPHNGIIDL KYFPYYGEKLHVGYLQPLVAV QVSFAPNDTGKEVTVECKIDGS ANLKSQDDRDKFLGRVMFKIT
22975	53343	A	23109	104	478	ETEVGGLVEASMSHNCTTALQ PGQHSQKENLQNKPIPREKY* VSIEFELIYFF/YCQVGYLQPL VAVQVSFAPNNTGKEVTVECKI IDGSANLKSQDDRDKFLGRV MFQNHSTVHMSRSVSSTE

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22976	53344	A	23110	3	903	LLSPVRAHTMTKNEKSLNQSL AE\WKLFIYNPTTGFLGRTAAS WGLILLFYLVPYGFLLAALFSFT MWVMLQTLNDEVPKYRDQIPS PGLMVFPK\VTALEYTFSRSDP TSYAGYIEDLKKFLKPYTLEEQ KNLTVCPDGA\LFQKGPVYV ACQFP\ISLLQACSGMNDPDFG YSQGNPCILVKLNRIJGLKPEG VPRIDLCFKRMKDIPNAVYVS HNGMIDLKYPYYGKKTAMF/ VGIYQPIGILLVQVSFAP*QPLGK EVTVE/CAKIDGSSQPKKVQDD\ RDKVFGDEFMFQIHSTVH
22977	53345	A	23111	467	931	SRDSRRGTPLAGGRGRDFAGQ MGHRVQGRHGSRGRLPSGDAR VNAERAEPVGAGAGGPGGGSS VRGFCSRWS\EA/RGRRRAGG GVHNEP\RYRQFP\QLTQIPRCSQ SEFVSGLMWFWIF\WRFWHD K\KVLGHFPV\YPDPSQWTD\EE L/GIPDD
22978	53346	A	23112	1	390	VTIPTSLAELQGLPHIRVFLDNN PWVCDCHMADMVTWLKETEV VQKDR\LTCAYPEKMRNRVLL ELNSADLDCDPI\PPSLQTSYVF LGIG*ALIGAIFLHYRNNGPLTIS SEGGLASLLCKDSRGVPLL

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22979	53347	A	23113	3	1653	PQRIQRGVPTRGEEVAPGRRQE EEREQERGAERPDPCCVLSGGK GRGNRLREAPGGEGVSQVPA AAPLPRFHERKVFFQTLPAR ALRAQPEPSEAPSPSSGETR AAMPGGCSRGAAGDGRRLRLA RLALVLGVVSSSPTSSASSFS SSAPFLASAVSAQPPLPDQCPAL /CACRSEAAARTVKCVNRNLTE VPTDLPAYVRNLFLTGNQLAVL PAGAFARRPPLAELALNLSGS RLDEVVRAGAFEHLPSLRQLDLS HNPLADLSPFAFGSNASVSAPS PLVELLNHIVPPEDERQNRSE GMVVAALLAGRALQGLRRLEL ASNHFLYLPRDVLALPLSRHL DLSNNSLVSLTYVSFRNLTHLE SLHLEDNALKVLHNGTLAEIQ GLPHIRVFLDNNPWVCDCHMA DMVTWLKETEVVQGDRLTC AYPEKMRNRVLLELSADLDC DPILPPSLQTSYVFLGIVLALIGA IFLLVLYLNRKGKKWMHNIRD ACRDHMEGYHYRYEINADPRL TNLSNSGCLLEELEDPRPTTLH
22980	53348	A	23114	288	877	ASRLSLPTRTSMRSSSTSPSSSS SSSLCRFLNLNRVTDAAFNLL VWYYCTLTIRESLINNSRWG RAGPEGGEHGMGCQGPSKGR EQGAGG*WVVFCSRVIKGVW VFHHYVSTFLSGVMLTWPDGL MYQKFRNQFLFSMYQSFVQF LQYYYQSGCLYRLRALGERHT MDLTVGESGVALASGHSFPLPS

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22981	53349	A	23115	1	1273	MAPLHSILGNRVGLCQASVRA CPGATVSSQCRASLRSLAWRG SELPANRGRTWPGPGGLRLQA APRLAYLGRATLLVLTPLYDLP PNVRFTSMSPASPHYFLVLGAPI FLLLRSTWSYYHACRFEYATPN DRNTTYLAISGPTRRTYDVATF AYKDEYEKFKLYLTIILISFTC RFLLSRVTDAAFNFLLVWYY CTLTIRESILINNGSRPDGLMYQ KFRNQFLSFSMYQSFVQFLQY YYQSGCLYRLRALGERHTMD LTVEGFQSWMWVRGLTFLLPFL FLW/YNSGQLFNALTLFKPGPR DPQLQGVGRCLCCGPFLL/LFL GNFFTTLRVVHHKFHSQRHGS KKDLRLGLSPCRPRGRFLVPVC FWEQDWEQAPSSVRVSSGLFY SPLGFMGRGCGKEDPGPSCPQ
22982	53350	A	23116	238	398	
22983	53351	A	23117	1	386	
22984	53352	A	23118	13	580	
22985	53353	B	23119	39	1171	
22986	53354	A	23120	381	795	PPSSKAPSSKGPAAKIVCIYALI LQSNVETITDKFNLIKAAAAY TVEPFWPSFFAKALASVNIGSLL CNAGVG/SMAPAACTAQAGGP ATSTTAASAFRNHNPRJAPKFR GVLAHEQYLSERATVWVWAPNP NPKSLF
22987	53355	A	23121	1	960	
22988	53356	A	23122	2	3952	
22989	53357	A	23123	1058	1494	KSVRLVNV/YLRTQKAVVRVSP EVPLQNLPLVICAKEVSPHVV LLRDNIAGELELSKSLNELGIK ELYAWDNRRVPSAVPMQGPWP AEHFLQVNEQPPAGSPSPCSSS SSSSGLRGGMQTANGACALTP TCAQTDCCPTSH
22990	53358	A	23124	195	398	TDSSSALQPQHRGRPALRQRT PRRSP/SPGLSPPRGASPAS/SGA PARGVAFGGDEPPIGAEAMYSK P
22991	53359	A	23125	2	155	
22992	53360	A	23126	1	339	

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22993	53361	A	23127	150	1017	LGRWRQDQVPHGLECRSQSEW SCTDSRQHSYSDSRREQIGK MRYVSVRDFKGVLDIREYW MDLKRLPRKPRTEAGSGSLSS PGADTPVEAAVTVRLGLGSVD VGSFRAWQRGKSAAVGHTVSP RWPRWQGGSSALSMASLSTL TCSWGLRYSALPTTSAQREEG SALYRHLSPPSLRFPYPTVKWAT LAITRPRPPAPRSHSHHPQPRAL CPVVVLFQHPKTHGENLGDRW KEGSAVSSKGTGPAKLSSGRIR NALQNTLGEVSVARIQTHRGIF VETTEARL
22994	53362	A	23128	1	584	APIECGGIPSLPVLCSRANDQE GVRLLEPSEAMPKSELVSSSS GSDSDSEVDKLLKRRKASLL/P ENPVKKQKTGETSIRALSSF*TE PASSRDDNMFQIGKMYRVSV\ RDFKGKSA*FDIREYWMDEGE MKPERKGISLNPQQWEP SLKE QISGPLIDASKKTKISEPILIKPC TVPVVLICLVTVAVCF
22995	53363	A	23129	186	687	LLWARGLGRAKSAVPTVSTML GLPWKGGSLWALLLLLSQIL LIYAWHFHEQRDCDEHNVMAR YLPATVEFAVHTFNQSKSDYY AYRLGHIFNSWKEQVESKTV\F SMELLGRTRVWEYLKTTIDNC HFQESTELNNTFTCFITSTRPW MTQFSLNKTCLGFGH
22996	53364	A	23130	232	402	LFKAWECCFLIFLQVVITRLKLD KDRKKILERKAKSRQVGEKKG KYKEETIEKMQE
22997	53365	A	23131	637	758	NVEEKNRKKILERKAKSCQNK KEKGEYKEETIGTMRECGL

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22998	53366	A	23132	1	1095	IVFLLYLETCLFVMDCKPNEA LSDSSERLFSFGVIADVQFADLE DGFNFQGTRRYYRHSLLHLQ GAIEDWNNSSMPCCVLQLGDI IDGYNAQYNASKKSLVLVWQ FKRRKGPVHHTWGNHEFYNFS REYLTHSKLNTKFLEDQIVHHP ETMPSEDIYYAHFVPPKFWFI LLDAYDLS/ALGAWDQSSPKY GSVWKILEGSHNPINTGNWNSS SRDFSEA/RSLFQFNGRVSQAQEQ LNWLNEVLTFSDTNQEKVVIVS HLPALYPGPPFNDVCLAWNYRD ALAVIWSHECVGVSLGHGTHD GGYSEDPPGVYHG/NLEGVIET APDSQRFGTVHVYPDKMMLKG RGRVPDRIELQKKEPSHC
22999	53367	C	23133	235	382	
23000	53368	B	23134	63	293	
23001	53369	A	23135	160	330	
23002	53370	B	23136	1	870	
23003	53371	A	23137	2	1013	
23004	53372	A	23138	1	1552	
23005	53373	B	23139	120	1034	
23006	53374	A	23140	1	584	RTRGRSLAFLLLAERGA VLWSGCRFRARLGCLPGGLR VLVQTGHRSLTSCIDPSMGLNE EQKEFQNAAFDFAAREMAPNM AEWDQKELFPVDVMRKAQQL GFGGVYIQTDVGGSGHVRDLD SVIFEALATGCTSTTAYIRHPQ CPQSQHSFVQEGGTHYKAGHL CCRQWGPRACLPPGRPCRGA
23007	53375	A	23141	2	412	
23008	53376	A	23142	47	487	
23009	53377	A	23143	77	459	GWKGIEHTLGRCLAEQGVINY RMLLSWRRWLVAHPVF*SFSC VGPVGQS*RMTMLHCRHSDPV AKRLSCRRGDFASVVVLCPPPP RLRTLKHFLFFGGLPLSIDFVMT VDFCCHLHLTDFSSNFGF
23010	53378	A	23144	1	304	KVAGSPSPTPAGQQVLDVNSCL DSSVLDSSFLTFSGLHAE/AEGS TGGAALAYLGLKTLCTSQQAF AGQMKSDLFLDDSKSDLEEPW ELRKEGAPRSRDRE
23011	53379	A	23145	1	207	
23012	53380	A	23146	1	3009	
23013	53381	A	23147	3	298	
23014	53382	A	23148	1	636	
23015	53383	A	23149	1	795	

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23016	53384	A	23150	125	1527	SSPRQQTQLARVHP/DGRAQ/LA PSCLPGLGLCPVPVPCVNCNCPA CPCHEHCGEAP*GVA\AKRGAL RVHPPHPCGGPRAMTVTLHGQ DVLMLPGDLVGLQHDAGPGAL LHCSPAPGHGPGQAPYLSANAS SWLPHLPAQLKGTWACPACAL RLLAATEQLTVLLGLRPNLGLR LPGRYEVRAEVANGVSRHNL CSFDVVSPVAGLRVIYPAPRDG RLYVPTNGSALVLQVDSGANA TATARWPGGSVSARFENVCPA LVATFVPGCPWETNDTLFSVVA LPWLSEGEHVVDVVVENSASR ANLSLRVTAEEPICGLRATPSPE ARVLQGVLYVLLAGSSGYLVG FKFLESHGSDSGSANSFHCLISQ NEFKTL.LPDLTRAPRYSPPVEA GSDMVFWRWTINDKQSLTFQNV VFNVVYQSAAVFKLSLSADSAP RPRWRLQSPRVGRSLSPDPGFFG SPGPCQPRLQAFLI
23017	53385	A	23151	648	1387	ASTQSLLAWCPA.WLSIPSTWPS SFSSGCPG/CKAQPVVEVSRSSY VYLEGRCLNCSSGSKRGGYTFT LT.VLGRSGEEEGCASIPLSPNRP PLGGSCRLFPLGA.VHALTTKVH FECMGWHDADAGAPLVYAL LLQRCRQGHICEEFCVYKGSLSG YGAVLP.PGFRPQFEVGLAVVV QDQLGAAVVALNRSLAITLPEP NGSAMGLTVWLHGLTASVLP LLRQADPQLVIEYSLALVTVLN ETYTESL
23018	53386	A	23152	2	654	DKHIWLSIWDRPPRSCTFRIQRA TCCVLLICLFLGANAVVYGA GDSAYSTGHVSRLSPLSDTV AVGLVSSVVVYPVYLAILFLFW MSRSKVAGSPSPTPAGQQVLDI DSCL.DSSVLDSSFLTFSGLHA EVINTLADHQHRTDFGSGPSVLII TVSLRSYKFAISLCTTYLWVINT LADHRHRTDFGGSPWLLIITV FLRSYKFAISLCTTYLC

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23019	53387	A	23153	2	4072	SRDPAGSYHLNLSHFWRWSALQ VSVGLYTSLCQYFSEEDMVWR TEGLLPLEETSPRQAVCLTRHL TAFGASLFVPPSHVRFVFPPTA DVNYIVMLTCAVCLVTYVMVM AAILHKLDQLDASRGRAIPFCG QRGRFKYEILVKTGWGRGSGT TAHVGMILYGVDSRSGHRHLD GDRAFHRLNSLIDFRIATPHSLG SVWKIRV\WHDNKGSLALGFL QHIVVRDLQTA\QSTFFLVNDW LSVETEANGGLVEKE
23020	53388	A	23154	1	10922	MPPAAPARLALALGLGLWLGA LAGGPGRGCGCEPPCLCGPAP GAACRVNCSGRGLRTLGPALRI PADATALTAMAKADGDVKKY GSKRGALALTHGHSLLRDVSH NLLRALDVGLLANLSALAEIDI SNNKISTLEEGIFANLNLSEINL SGNPFECDCGLAWLPRWAEQ QVRVVQPEAATCAGPGSLAGQ PLLGIPLLDSCGCGATLVGPHGPL ASGQLAAFHIAAPLPTATRW FGDGSAEVDAAGPAAS
23021	53389	A	23155	3887	14184	HVLCWVVTYMVMAAILHKLD QLDASRGCAIPFCGQRGRFKYE ILVKTGWGRGSGTTA\HVGIIHA VWGGQPERPPAPGTATEPSTAT VWDIFQIRHPAQPGVACWKIRV FGTTTGSALPRFPCSTSSSGTC RRHAAPSSWSMTGFRWRRRPT GAWWRRRCWPRVPRSVFPLR HAALLRFRRLGAE\LRGFFDK HIWLSI\WDRPPRSYFTHIQATC CVLLICLFLGANAVWYGAVGD SAYSTGRVSRNLNLSVY
23022	53390	A	23156	1	442	GGASGMGGITASTVNQ\SLSP LVLEVDP\NIQA\VRTQEKQIK\ TLNNKFASFIDKVRFLQEQNM LETKWSLLQQKTARSNMDN MFESYINNLRQLETLGQEKLK LEAEFTTWGPPLMPPTATKQFN CFFFLVQNKTSASSANVK
23023	53391	A	23157	1	497	
23024	53392	C	23158	208	422	

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23025	53393	A	23159	81	1339	ELSSPRSSFSAPSRISA WFGPPAS TPASTMSIRGTQKSYKGSTSGP RAFKQAAS*QRSQPGFRISSSSF SRVGSNFRGGLGGYGGASG MGGITAVTVNQ/SRALLSPLVL EVDPNIAVVRTQEKEQIKTLNN KFAFIDEVGFLEQQNKMLGT KWSLLDQKTA/RSNNM/DNMF/ ESYNNLRRLQLETLAQEKLKLE AELGNMQGLVEDFKNNYED/IEI NKSTETENEFVLKKDVDEAYI NELYEEIEIRELQSQISDTSVVL DNRSLDTDSIAAEVKTEISEMN RNISWLQAETEGKGGRISE GIADAEQRRELVIKIDANAKLSE LEAALQQTKKLLE/MENMSIHT KTTSGYAGGVSLAYGGLTGSG LSYGLSSSRSGAGSSFSRSTST RAMVVKKIKTRDGKLLTSLR
23026	53394	A	23160	1	651	MTAFNSGKVDIVAINDPFIDL YMYMFLYDSTHGKFHGTVK AENGTLVINGNPITVFQDQPS KIKWAP/LAKVIHDFNGIIEGFM TTVHTITATQTINGPSGKLSRDG CRALQDIIPVSTGAAPVGVKIP ELNGKLTGMFAHVPTANVSVA DLTCRLEKPA/KYDDIKK/INTHS STFDAGAAIVLKDHSVKLISWY DNEFGYSNRVVHLMAHNASKE
23027	53395	B	23161	1	382	
23028	53396	A	23162	3	1151	ASAHASAVRQSAIIFCVA HIAETPLGKVKVGVNGFGRIGR LVTRAAFNSGKVDIVAINDPFID LNYMVMFQYDSTHGKFHGT VKAENGKLVINGNPITVFQERD PSKIKWG/DAGAEYRRGSPGLV FNQPRKAGGSICKGSGQKGS ISAPSAECPPCFVMGCEPMKKY DKQAFKIIISNASCTNQLL*HPL AKG*FHDNFGNSLEGLHDHKS MAITANPRKTV/DGSPRGKLWP LMGRGALQNIIPASTGVA GKVIPELNGKLTGMFAVRVPTAN VSVVDLTCRLEKPAKYDDIKK VVKQASEGLKILGYTEHQV VSSDFNSDTHSSTFDAGA/GIAL NDHFVKLISWY/DNEFGYSNRV VDLM/AHMGFGQS
23029	53397	A	23163	160	236	
23030	53398	A	23164	931	1124	
23031	53399	A	23165	132	303	

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23032	53400	A	23166	20	171	
23033	53401	A	23167	1008	1262	HELQCSLLPVRHATAGHTNGQ NRLHWGHVAHSNYGAALKTN GVEVR*FTAAIARCDGNPYESF RKDVRAFQTRIDAIVRCLPK
23034	53402	A	23168	732	1162	RCIEKGRKGHQAPTGSTRPDG TILSACRSQQQGMFASAGV ARQMGSTGNLPHLV*PYFLGLS SKAQHTG*LHKKR
23035	53403	A	23169	2	1093	
23036	53404	A	23170	236	496	
23037	53405	B	23171	22	3084	
23038	53406	A	23172	305	522	LRDGRGSMSSSSPNSASGSAICP ASSVMPETVS/SRVMPNVTKP A/MTAKQTRIRNQMVAITYES DAWNRSYQ
23039	53407	A	23173	177	386	
23040	53408	A	23174	3	200	GAVAPMHPAHVPVPGAAQPP PA*QPATPCHQPA*GQPA PPDV PGPESAGRSLHHAHICLAPNEQ
23041	53409	A	23175	171	535	
23042	53410	A	23176	190	505	VPTDRIRTLTSVCKRRCEVHQ LEDPRFEVYQVA/PRRD*SFETS VWNHMRKQ/PPLDVRQLAS*N VLHRQLDIMDSAVASMYSIHLS IKMGIGFSGVTTVVKGTPK
23043	53411	A	23177	349	1272	
23044	53412	A	23178	518	1451	VSSSIIMFGPLSQFPRQVQGVSSV KRPSNVVCPGLMFSFFSSAA*IP **PLI*QPGV
23045	53413	A	23179	2436	2894	TSPDVLRAQPRVPSVQGTSPSQ SCPGQRPHGPNSKAYGR/LSVM AQYYCNVIPLE/VPPSAFTPPP KVDSAVV/RLVPHATMPHPVK DVRVLSRITTEAFNQRRKTIKRS LGNLFSVEVL TGMGIDPAMRA ENISVAQYQCMANYLAENAPL
23046	53414	A	23180	1846	2557	IPVSEKQSGDWRFFSVVYNKA GGLIYQLDSYAPTGLRLEKTFIS YPLDLLKLHDERVLVAFGQR GRHPEWGHAVLVAINGMDVNG RYTADGKKVLEYLGNPANYNP VSYLFAQPLTSNDKLMAL MFHSLFAIGSQACLPIEQGKPGQ IENAWKTDTFKLHCYQTLTG KFVVLADPRQAGIDSLRKIYEI YSDFALKNPFSYLEMPIRCELFD QNLKLALEVAEKAGTFPGS
23047	53415	C	23181	34	225	
23048	53416	B	23182	105	381	
23049	53417	A	23183	1	837	

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23050	53418	A	23184	3	744	HEASCRERRRQMAFDFTYDD RAYSSFGGGRGSRGSIAGHHGS RSQKELPTEPPYATAYVGNLPFN TVQGDIDAIKFDLSIRSVRLVR DKVTGKFKVGFYVFEDEVDSL KIEALTYD/GALLGDRSLRVDF AKGRKTKIRVAFGRKGGPDD R/GFRDDFLGGRGSRPGD/RR TGPPMGRVFRD/GPLRG/SNM DFREPTEEERAQRPRQLKPR VWRPLNQVANPNSAIFGGARPR EEVVQKEQE
23051	53419	C	23185	1	1038	
23052	53420	A	23186	1	1486	MGRNQSRKAENSKHESTYSPP KDHSSSQAMEQSWTENGFEKL GFRRKEALYYLDLTASCQSQEL FQLYAGMSVVGTSMPVQAVCP YCGNRIITVTTFPGALTWLLC TTLFLFGYVLGCCFLAFCIRSLM DVKHSCPVQRELFFYHRLRQ MELASSARTVVAPSRPCAGREG RGDANGKNSPTAGSAMSEPP PPQPPTHQA/GVGLLDTPRSRE RSPSPALRGNVVPSPLPTRRTRT FSVATVR/ASQGPVYKGVCKCF CRSKG/HIGFNYPAGWAGPDIF PGTSLDVGGRSYVPSGKGDEV TLLKCAPIPTPKNEKLAGPWEV VHHSPWHPGT/KHET/WSG/HVI SFLGGLVESTPLSLCFVGDFA RRQQTLEDDILPHETGLQRGNG PSQVSPGGKGYGGAGVGCVF PAISTAYGPLQQLPHHLKSIKSH LKRRAHWWLSGGSNPIPGSGS RVGISSQLAQTHGLNPQNPS WSWRPQIPRSGPLAA
23053	53421	A	23187	2	617	
23054	53422	A	23188	1	993	
23055	53423	A	23189	779	1210	AAAGSEAGRRRGADPTRGPHV LPGSRQRRP/PIFSLDLSGFFLF CSEFCPEIKSTNPGISIGDVAKE KKKLGEWWNSLNDSEKQPYFT KAAKLKEKYEKDVADYKSKG KFDGAKGPAKVARKKVEEDE QEEEEEEEEEEEE

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23056	53424	A	23190	116	522	KAPYSTNSLSLPPFILFMGSGY RKQPTTFQEPKPLPGAAARGPGC DPTQPPRHSAPRDHGGP/SPRCS PRPARPRASPAWLPAPRAPTPPSP PAPAAAPRSCRGHARASSGRSG TTATPRRRRGGLWNQSPMDIK G
23057	53425	A	23191	1	152	
23058	53426	A	23192	1	676	MWSAGRGGAAPVPLLGLLLA LLVPGGGAAKTGAELVTCGSV LKLNLNTHHRVRLHS/HDITYG SGSQQSVTGVEASDDANSYW RIRGGSEGGCPRGSPVRCQAV RLTHVLTKGNLHTHHFPSPLSN NQEVSAFGE/EGEGDDPGTLW TVRCSGTA/HWEREA VRFQH VGTAVFLSVTGEQYGSPIRGQH EVHGMPCQ/QHNTWKAMEGI FIKPSVEPSAGHDEL
23059	53427	A	23193	1	1044	
23060	53428	A	23194	1	1083	MTATLAAAADIATMVSGSSGL AAARLLSR/SFLLPHNGIRHCAY TA/SLRQHLYVDKNTKICQGF GKQG/TPFHSQQALEYGTKLVG GTTPGKGGQTHLGLPVFNTVK EAKEQTGATG/SVIVPPPFAAA AINEAIEAEIPLVVC/YPRGIPQP GLGHSSSHKTCGPKDKAYWG PNCPGVINPGECKIGIMPG/HIF HKKGRIGIVSTSGTLTYEAGH/Q TTQKLGLGQSLCVGIGGDPFN GTD/DFD/CLEILFERFLPQEGII L/G/EIGGNA/EENAAEILEPLYSGS KF/ARPVVS/IIAGLTAPPGRRN GVMPGAIISGREKVGAKRERSS ALQASAGVVVSMSPCTAGEPRF YKEFEKREDRL

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23061	53429	A	23195	1173	2110	FFTELEETILKFIWNQKRACISK ARVNTNDKSGGITLPDFKLYNE AIVAKTTWYWKSRHIDQEKR REEKKE*KKDPSVPETLKKKQR NFTELKIQCLSKKFAQKMLQTA RRKLIYEKVKHCHKEYRKM TEIRMARMATKAGNFYVPAEP KLAFVIRIRINGVSPKVRKVLQ LFLLYQIFNGAFVKLNKASINM LRIVEPYIA/WRYPNLKS VNELIYKCGYKINKK*/IALTDN ALTA RSLGKYGI CREDLIHEIYTVGKCFKEANN FLWPF/K/LSSPRGGMKKKTTH FVEGGDAGKREVQINRLIRRMN
23062	53430	A	23196	3	571	GTMEGVEEKKEVPAVPETLK KKRRNFAELKIKRLRKKFAQK MLRKARRKLIYEKAKHYHKEY RQMYRTIIRMA/RMARKVAGN FYVPARTQIWRFVIRIRGINGS EPQRFKVLQLLRPFKIFNG/T PFVKLQGGFRFNLDRCSRSHIL AWGIYPNLKSVNELIYK/RGYG QNQFDLHFFTEKRSHPGSQ
23063	53431	A	23197	2	340	PRVPRVRDSKMASVGEVSGP QYPVKDKLLAEVQTGGSPSPW NLMRGPSPSPGIFGAFQRGLLR GTYNKYTNVKKGSDLGFTMV LVACYVLFYSYSFSYKHLKHIER\ LRKYH
23064	53432	A	23198	2	48	PRVRLRC*MVDEYCGCEWGK* LNGGRVLWM
23065	53433	A	23199	123	693	QACIMREYKLVVLGSGGVGKS ALTVQFVQGIFVEKYDPTIEDS YRKQVEVDAQQCMLIEDTLAG TEQFTAMRDLYMKNQGQGFALV YSITAAQSTFN/DLQDLREQILRV KDTDDVPMILVGNKCDLEDER VVGKEQGQNLARQWNNCAFL ESSAKSKIYNEIFYDLVRQINR KTPVPG/KAPQKSPSCQLL
23066	53434	A	23200	461	1422	SPHGEPLLGCRRREMVGWSLH TESPLG/QWGSQILKLQNDLL
23067	53435	A	23201	232	331	TPL*KWLRGVMAVTVVTPQTG IIAIPDPHHEWGSTGYPRLPA

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23068	53436	A	23202	5	1223	GLDSGPESGLRAQPGLLAGKRK MSVLRMMRVSNRSLAIFFFF SLSSSCLYFIYVAPGIANTYLFM VQARGIMLRNVKTIGHMIRLY TNKNSLNGTDYPEGNSSDYL VQTTTLYLPENFTYSPYLPCEKL PYMRGFLNVNVSEVSFDEIHL FSKDLDEIPGGHWRPKDCKPR WKVAVLIPFRNRHEHLPIFFLHL IPMLQKQRLFAFYVVEQTGTQ PFNRAMLFNVGFKEAMKDSV WDCVIFHDVDHLPENDRNYYG CGEMPRHFAAKLDKYMILPY KEFFGGVSLTVEQFRKINGFP NAFWG\WGEGDDDLWNRV\H YAGY\NVTRPEGDLGKYKSIPIH HHRGEVQFLGRYKLLRYSKER QYIDGLNLIYRPKILVDRLYT NISVNLMPELAPIEDY
23069	53437	A	23203	78	495	CTFEKAPFQLGRGRMVPAKK GGEKKTGR\AINEVVTREYINI HKRIHGVGFKRAPWALKEIR KFAMKEMGTPDVRIDTRLNKA VWAKGIRNVLYRIHVRLSRKR NEDESPNKLYTLVTYVTVTTF KNLQTVNVDEN
23070	53438	A	23204	138	360	KNQKRQLSGGHCADQTSLVLA RLAPLF\PTTMSDKPDMAEIEKF DKSKLKKTTETQEKNLPSKETT EQEKQAGKS
23071	53439	A	23205	145	728	KRQPTSAMKDPFSRSTSPSIINE DVIINGHSHEDDNFPA\EYMWD GKMEGRNFNR\QIGRRELWGR KD\FLNRCFPKE\MLGEGKEG ALNWV\LFPSFEILPHQTMGPNP RTSFNDPCLSSDGSF\SWEDLVV KS\NLNPNAKEFVPGGEVRKYL SRRGPLLVDVAQFPHCEGSIRR LNCKSSLGHCVTL\AJAQSFC
23072	53440	A	23206	530	707	
23073	53441	A	23207	1	515	MDFS\KVP\PHAA\FAQPP\ALT WGLAKGSGRGAGEGGERPDRR R\PAARTGTPA\WRPAGRRRLPP RSPPPA\VPV\RPAL\PHV\PGKE TGKTRRRRHYS\PRPLRGAA AAAAAA\VAQTASPSWAEGGRS GAGGSAES\PAFSSPAL\PCPEGLL CPSAVPVPSKQSVSEVLAIF
23074	53442	A	23208	3	713	
23075	53443	A	23209	1	704	

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23076	53444	A	23210	2	1631	GLPRRPTRPPTRSGVSPWPVPGPH SGVLFPLLHCTGSLSQAVLTQ PSSLASAPGASVSKLTCTLRSDIN VGSPFIYWYQQKPGSPFPQFLLR YKSDSDNQQSGVPSRFSGSKD ASANAGILLISGLQSEVRRDDYY CQAWDSSTAHSDTGRGIVGRVP PVRQCWPLILLGLAMVAHGLL RPMVAPQSGDPDPGASVGSRS SLRSLWGRLLQPSQPRADPRC WPRGFVSEPSQLCYVFGTGTK VTVLGQPKANPTVTTLFPSSEEL QANKATLVCLISDFYPGAVTVA WKADGSPVKAGVETTKPSKQS NNKYAASSYLSLTPEQWKSHR SYSCQLQWGLGLGASQGGFLY EPVSCQVVFVGGGTCLTVLGGP KAAPSVTLFPSSEELQANKAT LVCLISDFYPGAVTVAWKADSS PVKAGVETTTSPKQSNKYAA SSYLSLTPEQWKSHRSYSCQKP NHASHGTSRMPVSAPVSGLSK CWSGTGDRSALQGMGPCHGI PDPMQQASDSGQPKAAPLGLS CSKPSSEELSGQGGPHWCVS
23077	53445	A	23211	1	959	VFLLLYLVAMPDPAKSAPAK KGSKKA VTKAQKKDGKKRRR SRKESYVYVYVVLKQVHPDT GISSKAMGIMNSFVNDIFERIA GEASRLAHYNKRSTITSREIQT VRLLLPGELAKHAVFIENLLNY RKYL VKSSEKDRNYPCPLGLK SKVDICTPYCLLLPQPRHYPG KDTKEETEDFPNSPPINREEDK RYTTVMGPCLRQAALLEGELLA CPVMEDQANWVHEPITNTF KEIRKSIRENGPASPFTRGLIEVI ADSSDLVASTQKLTPKETPSA PYNDISDLTNQDSWFGFPIWNN AGETDLSNNKTT
23078	53446	A	23212	3	463	
23079	53447	A	23213	74	464	
23080	53448	A	23214	41	490	
23081	53449	A	23215	2	369	PDPAANAPAAAKPAAKALPV FLLLSGGAGPAHPMRAPGC*G ELGYTEQLFQFLQATAQEEGIF EYTDPKLAISAVWTFRDLGVVLQ QTPSPAGPRLHLSPTFASLDNQE KLEQFIRQFICS
23082	53450	A	23216	124	301	

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23083	53451	A	23217	3	2426	PGVLSTATFRESGLSPCSKLLKHP GPRGRILQYSPPTAGQGRLENG AGHPQSTGPVATLSVAEYGTQ GGASGPARIPIGSRGCLLAGRA EASLWSSGFGMKLEAVTPFLG KYRPFVGRCCQTCTPKSWESLF HRSITDLGFCNVILVKEENTRLF SWALLRVLLKLLFNLVQLHKGQ MKMVQKAAQVGVGTSLWL SPEQGLPLVLLSTHKTLLDGILL PFMLLSQGLGVLRVAVDSRAC SPALRALLRKLGLFLPPEASLS LDSSEGLLARAVVQAVIEQLLV SQGPLLIFLEPPGALGPRLSAL GQAVWVGFVVQAVQVGIVPDAL LVPVAVTYDLVPDAPCDIDHAS APLGLWTGALAVRLRSWSRWG CSHRICSRVHLAQPFSLQEYIVS ARSCWGGRTLEQLLQPIVLGQ CTAVPDTEKEQEWTPTGPLLA LKEEDQLLVRLSCHVLASVVG SSAVMSTAIMATLLFKHKQG VFLSQLLGEFSWLTEILVRGFD VGFSGQLRSLQHSLSLLRAHV ALLRIRQGDLLVVPQPGPLTH LAQLSAELLPVFLSEAVGACAV RGLLAGRVPPQGPWELQGILLL SQNELYRQILLMHLLPQDILL LKPQSSYCYCQEVLDRLIQCG LLVAEETPGSRPACDTGRQRLS RKLLWKPSGDFTDSDDDFGE ADGRYFRLSQSHCPDFLLFLC
23084	53452	A	23218	169	955	ASSQLPCSMACCATWAPLKM RWLCSTAWSTSSLPPSWSSL QASQPSCCHATSAPPACAGQCL ARAWPVLFLCTCALGLLASIA MTFATQGKALLAACTFGSSELL ALAPYCPFDPTRIYSSSLCLWGI ALRCSAWAENVFAVRCAQLTH QLLELRPWWGKKQPTHMMRE NPELVEGRDLLSCTSSSEPLTL CRDDVLP RP DGQLRTLQATLL CDPGPGFLGAGLRGLKWTGG PISGAFQPSPTPAHLHLKIETL F
23085	53453	A	23219	1	344	

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23086	53454	A	23220	214	1355	FCSSWLRLSLADSSLWKMFVLVGLTGIIASGKSSVIQVFQQLGCAVIDVDVTARHVVQPGYPAHRRIVEVFGTEVLLENGDINRKVLGDLIFNQPDRRSLNAITHPEIRKEMMKETFKYFLRGYRYVILDIPLFETKKLLKYMKHTVVVYCDRDTQLARLMRRNSLNRKDAEARINAQLSLTDKARMARHVLDNSGEWSVTKRQVILLHTELESLLEYLPLRFGLTGLAAIASLLYLLTHYLLPYAYTASAIPPSGAASRGPGARCSAIRKRAPRPTSAVSPPGAPRSPARGLRAIDRAAGTRNLNATLPPGPPAPSPSPSSITLHVFIQLQPDITRGREGTDFQWEKFPGRVLVADSRRLRCLAPATWLV
23087	53455	A	23221	2	1231	TPFLFRKGTADGSARTTVIHLGFTKGKQRCVETQAAAAGVDVGRTAAGGRVKGESGVSSDDRPGLPVGQSQPEGGEQATDTVSVHATTSAWPGGADSKELSSKAEERETGKDQQTLEPLCLPLRDFPDSAPVMSSDSGHATESLHLASSDSKPPMPTPNEGPGSTVGHAGPRTVKADLCTEPQLALRGLQVSLPRLHLVGVIIAEHQASGLECGHAGSCSPDGSPRAPGATLCLS KPLSFRTKRCLPCWLPASAPVGPAGAPVHIPGAPVCIPGAPACISNAPVHIPGAPVIGPAPVCIPGAAVCVPNTPMCIPSPMCIPTPVCIPNTPVCIPNTPVCIPGAACILGAPRAHPWCSSCVHPGAPECYLGCGLTQADRLPAVLDAQLQEPFLFALCGQALPS
23088	53456	A	23222	2	408	
23089	53457	A	23223	62	251	

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23090	53458	A	23224	2111	3003	TQKAIACMCLGLCKKIHHLLSLQ CLISQIKMIMGAGWQ/SSGFTDE KETSQIKADPEKLLKQESLLE EDSEEEGLCRICQIAGGSPSNP LLEPCGCVGSLQFVHQECLKK WLKVKITSGADLGA VKTCEMC KQGLLVDLGDFNMIEFYQKHQ QSQIKTEATVVEHKDIYVNTET QLVPEARSVLLVGAGQMLLTG ANRALNSDYSSMRPKVKAQNE LMNSGLYLVLHLYEQRFDEL MRLNHNQVERERVVTRVLGG LSPNVSCGVVSGVGSFQWVRG LTDLKNEASDLHAQIPAE
23091	53459	A	23225	1	594	MIAAFNPGKVDVTITNGPFIDL NYMVMYMFHYDPTHGKFHDVP MFVGMGMNHKHNKLTVISNAS CTTNCLDPLAKVIHDFGIREG LMTTVHSIIATQKTVDGPSRKL WHDHSHGAFQNTIPASTGAAKI KKVVRQA/SQGPKLGILGYTEH QVVPLEFKSNTRPSTFEAGAGI AVNDHFVKLISWYGNEFAYSN KVIKPM
23092	53460	A	23226	3	232	QQTLLQPAALPCFPPTTHPPEVL PTAMNTTSSAAPPGLGVEFISLL AIHLLSVALAVGLPGNSFVWSI LKRMQKRSVTALMVLNLALAD LAVLLTAPFFLHFLAQGTWSFG LAGCRLCHYVCGVSMYASVLL ITAMSLDRSLAVARPFVSQKLR TKAMARRVLAGIWLVSFLAT PVLAYRTVVPWKTNMSLCFPR YPSEGHRFAHLIFEAVTGFLLPF LAVVASYSIDIGRLQARRFRS RRTGRLVVLILTFAAFVLPYH VVNLAEAGRALAGQAAGLGLV GKRLSLARNVLIALFLSSSVNP VLAYACAGGGLRSAGVGFVA KLLEGVTGSEASTP/RGGSLGQ TVKSGPAALEPGPSESLTASS LKLANELN
23093	53461	A	23227	1078	2221	
23094	53462	A	23228	6125	6319	ASVVPVTSALAMCSPKSGIGDG FAVLRVEDVAQK***KAALGV ASSPAWQQTREHVGQNSPL
23095	53463	A	23229	1	1347	

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23096	53464	A	23230	1	1124	MRECSIHVGGAGVQIGNACWE LYCLEHGIQPDGQMPSDKTIGG GDDSFNTFFSETGAGKHVPRAV FVDLEPTVVDVVRTGTGRQLFH PEQLITGKEDAAASNYARGHYTI GKEIVDLVLDRIKRLFGGGTGS GFASLLMERLSVDYSKSKLEF AIYPIAPQVSTAVVEPYNSILT HTTLEHSDCAFMVDNEAIYDIC RRNLDIERPTYTNLNLIGQIVS SITASLRFDGALNVDLTEFQTN LVVPYRIHFPLATYAPVISA EKA YHEQLSVAEITNACFEPANQMV KCDPRHGKYMCCMLYRGDV VPKDVNAAIATIKTKRTIQFVD WCPTGFKV*LGDMFAFQQAAD AQNNLTGLEPHPLGRLSLFHGL
23097	53465	A	23231	1	2918	MDVYCAHESLRHTKSPDATGQ TSQQRPEALQAFWPAFGSSPVT GSSPVTETTKGRWSSSRQVL WDRIPLAKSRPAISNRQSQRTNI PWWSCEPPLNLEREQPPRFAQP GTYASRWKALEMEKQOREQ VDRNIREAKEKLEAEMEAAH EHQLMLMRQDPLALVSCMQ QGQMSRSRSPKKVFKHLYELNL TKLQSLGSRSLRWKDSFVWGE EAGGKRPLVSLALHRSPLLL LFVPKHPKGRPDCTVQRS
23098	53466	A	23232	1	158	
23099	53467	A	23233	1	414	LGGLKGTWGETKPAMAAEEEE DGGPEGNRERGGAGATKTL YTGNHLFSPQWLETRPERQEC VCKAGISREKVVGESLLTFS HFLRLKTPQICRLPV*LFLPP*GF QPFQDGGFHFSFGVGAFFPGF FNPSY
23100	53468	A	23234	1	663	
23101	53469	A	23235	2	667	SWAGGGFWFGACVCFVGGTE GYVGRNKTGHGSSRRRRSGAP NVPNRERGGAGRPKTPFECNIC LETARELVSLANLYFWTISH QVLETRPEIRQECVPCKAGISR EKVVPLVYGRGSQEAIPRLKT PPPPRGQRPAPEIRGGGFQFPG DTGGHFHFSFGVGAFFPGFFTTV FNAHEPFRRTGVDLGQGH A/SSW/QD/SLLLFLAIFFF/WLL
23102	53470	A	23236	363	476	
23103	53471	B	23237	224	364	

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23104	53472	A	23238	1	1324	MRQRRRAELLSKDKRVRTDGN KCSPSAIGKRKRGTNDWIEGD NNQESQGLNCSDTLNRDLGPN TRGFLYAGLSGLDPSLPTPD MSSEVL EDNLDLTL SL YSGKDS SVKLL E EYADSESQASLQGRSR CWQHHPHAPLSYPPAASGSQLS LQGGKFP SAKPPLLGGYTCTAQR TQWALTKRSLRATRESVSRQQ GVYGLVGRKRTRHHRGVGLGL GIPSARPERPGTGEAGPTRLPG AAVARRRPARPVGRGLGDPAP TAAQTSGPASP LPPPPR SYGDP HQNGYDPDPAPSASDLPPAA GDTRGSGGRRKKRRTGTARLN TPGRKA\PKQKAAAGRKGRAH QPAPRTPEPQRRRPIRPPNQTD LRHPHRRACRGPPPGAGGTA NPSTGANGAATARRTAGART RGARGASERAGRHGSRPASWL TATPPPGT
23105	53473	A	23239	1	433	PTRPSSPEETDGPWDPEGHGG PLTDPNAPVLALPPAIPGLSL MADGSSDAAREPRPAPAPIRRR SSNYRAYATELQDLCLRHAR VDKVDEERYDIEAK\VTKNITEI ADLTQKIFDLRGFKRPTLRRV RISADAMMQALL
23106	53474	A	23240	2	409	
23107	53475	A	23241	3	490	SSPEETVGPWDPEGHGGPLTD PPNAPVLALPPAIPGLSLMADG SSDAVRAAG*GVAGTPRARAR EPRPAPAPIRRRSSNYRAYATEP HAKKKSKISASRKLQLKTL LLQ IAKQELEREA EERRGEKGRALS TRCQPLELAGLGFAELQDLCLRQ LHARVDK
23108	53476	A	23242	149	846	VSAWRNGSSDAAREPRPAPAPI RRRSSNYRAYATEPHAKKKSKI SASRKLQLKTL LLQIAKQEL E REAEERRRGREGARSLAPRC/QP LELAGLGFADLPGLCCRFHA RVVDKVDEERYDIEAKVSKNITE IAN\LTQKIFDLRSKFKRPTLRR VRISADAMMQALLGARAKESL DLRAHLKQVKKEPKEKENREV GDWRKNIDALSGMEGRMKKW RELSLPA YCPCPEEGH
23109	53477	A	23243	1	487	
23110	53478	A	23244	80	511	

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23111	53479	A	23245	427	1417	KTMWKVEFGVRFSSITRLLEHQ PKQTMYPPLPK/PPLWPEEPKTE APKQTPRAPPKPKTSPRIPRIPQT QPEETDQSTQEPFTTKIPRTIEL AKTTQGLEMLSLIHNPKMHK DSTNEQIAASLQACYEQLLM YIRVTDVDSVGPNGKEAVTA PQAPTFLFWLNHKAQLAKDWA GKDVNITPTFATSKKENKPPNN LQICNVSKIHQRAKVAGKPEIK DKHIQKEMPLDAIEASKINLVKI FNEFLKAWKCRLSFEYRIPENQ GHKGSFYLLVGSSRTSWLLTEK IGSSKRVLRMPPMDILKTTQILL SFLWSINLTPRGKNNHLVAPAH
23112	53480	A	23246	3	1011	
23113	53481	A	23247	2	334	PIQSFFLVLKPPRLKGVYLSK SLSRWFFKVQAN*RSQPKAFS RLSCHC
23114	53482	A	23248	1	642	
23115	53483	A	23249	854	1150	KEDTNKWKNPICSWLGRINIVK MAIMPKVNL*IQCHPHQATNDF SSQNWKTTLKFIWEKPEKAL PSQS*AKRAKLGGITLPDFQTIT YKATVTKTA
23116	53484	A	23250	1754	2393	PSNRREFGESWPETQAPGALRP LLPAPGTPRARERAPGWPARPM EYIYPSFRYEESDLRGYTVFKI EVLMMNGRKHFEKRYSEFHAL HKKLKKCIKTPEIPSKHVRNVV PKVLEQRRQGLETYLQAVILE NEELPKLFLDFLNVRHLPSLPK AESCGSFDETESEESSKLSHQV LLFLRDPYVLPAAADFNPVVE GVLHGIFYPHLQPR
23117	53485	A	23251	1	265	AGNRLRFQLELFVQCLANPNY LN/WYPQCLHMLELLQYEHFR KELVNAQCAKFIDEQQLHWQ HYSRKRMRQLQALAKQQQQN NTSGK
23118	53486	A	23252	1	987	
23119	53487	A	23253	1	491	RGRNFRFARVSGLLLCQAGGVL VSSFVMAAAVAMETDDAGNR LRFQLELFVQCYANHNLTIFLP QRIGYFKDKAFVNYLKYLLYW KDPEYAKYLKYPQCLHMLGA APNMEHFRKEAGWNAQCAKF IGWNRQVSTLGKHYSRKRM/R LQALAEQQQNNNTSGK

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23120	53488	A	23254	73	355	HEGQVHVLLASAHVDVAIVLG AGSMVEGEARPEQAAQH HQGI APLHLDA PGPSWTQSRSPNRNA NQNHTESEAT*SHPEQLPQTLW ECHAPRSP
23121	53489	B	23255	1	441	
23122	53490	A	23256	528	698	IIGQRFLHGPV/H/HHSHYDN/PH HSLHHHRCLHHCHLHHHRHHL HHHPLHCYHHHPQGNG
23123	53491	A	23257	1	403	
23124	53492	A	23258	509	4547	LYLTTSRREEHLKSLVETQDL ASPVLRVSICTKVEAFRQAH VIVVLDSDSTNKEVFTLEDCLRS RVPLCRLYGYLIEKNAHESVRV IVGGRTFVNLKTVLLMRYAPRI AHNIIAVALGVEGEAKAILARK LKTAPSYIKDVIWGNISGNYYV DLRKTRVYRYESAIWGPLHYSR PVLNLI FIDSEWVKREFVAILKN LTTTGRQFGGILAAHSIATTLKY WYHGSPGGEIVSLGILSEGQFGI PKGIVFSMPV
23125	53493	A	23259	56	290	
23126	53494	A	23260	468	993	VLLACFWPGSDFWPRSRRKTY GTAPQSCSYFYVALDCGGVSRL VIFVSWRNPQVAPTSAHQNRPS RNPVSRPPNTQVARRKHYAL ADGYTERRWTNAPCRAESSFPP NCPSAAPIDSYDK*PSRATLFT SHLTVEAFPVWSYLYPGETPRL HPRAHTRTVPAIRYPDRQTPN GLRGANTMHSQMDTLNGDGR THLAGQRARSPTARPQRYRI HTTSDLPLGLVRKYASGCCLRIW YCCAWIERALSQVGGGVFGD PLSEQAECDDHGST
23127	53495	A	23261	1	3114	
23128	53496	A	23262	3	401	TSSLSLSGKSGRYIVFLRRSVGI QSPSAVATVRLLLAGSDRRFAA GSAGCAVLSRAERS*EPGCCYR IRRS AFRLRAGSIGNRDKPVAW PDTGSGDNTEVYFRAHQAGILP DTVLAGPAQRVAVSGGTPVDW
23129	53497	A	23263	2874	3062	

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23130	53498	A	23264	2766	3323	MPDLVEGREKSDKGAQPQPR QSRARTNGSGVRILHSLWRIIG IPLLLGYSLVCSRVLLACFWPG SDFWPRSRRTYGTAPQSCYSF YVALDCGGVSRVIFVSWRNP QVAPSAHQNRPSRNPVSRPPN TQVARRKHYALADGYTERR WTDAPCRAESSFPNCPL*RY RIHIVDASVCGP
23131	53499	A	23265	968	1440	LSVVRSRIHMGVGVGVGCPVR YRNQDDHELQITHGNKILCGIV CDKGAQPQPRTOQSRARTNGSG VRILHSLWRIIGIPLLLGYSLVCS RVLLACFWPGSDFWPRSRRTY YGTVPQSCYSFYVALDCGGVS RLVIFVSWRNPQVAPSAHQNR PRRNPVSRPPNTQVARRKH YALADGYTERRWTAPCRAESSFP NCPSAAPIDPSYDK
23132	53500	A	23266	3	640	
23133	53501	A	23267	1	3140	MVYKMRYSQHPYSIKEKQMK SEVLSVKEKIGYGMGDAASHII FDNVMLYMMFFYTDFGIPAGF VGTMFLVARALDAISDPCMGL LADRTSRWGWKFRPWVLFGL PFGIVCVLAYSTPDLMSNGKMI YAAITYTLTLTYTVVNIPYCA LGGVITNDPTQRISLQSWRFVL ATAGGMLSTVLMPLVNLIGG DNKPLGFQGDLSPMFSTPEEIA RPGPYENDVHVVGASSLAAGH KTILPELVRSAEQHMGR
23134	53502	A	23268	750	1340	ILHAPAPPFASASHEQPEWSD KGAQPQPRTOQSRARTNGSGVR ILHSLWRIIGIPLLLGYSLVCSRV LLACFWPGSDFWPRSRRTYGT APQSCYSFYVALDCGGVSRV IFVSWRNPQVAPSAHQNRPSR NPVSRPPNTQVARRKHYALA DGYTERRWTNAPCRAESSFPN CPFAAPIDPSYDK*PFRIVS
23135	53503	A	23269	93	699	RASVQKQLSTDDKGAQPQPR TQSRARTNGSGVRILHSLWRII GIPLLLGYSLVCSRVLLACFWP GSDFWPRSRRTYGTAPQSCYS FYVALDCGGVSRVRSYLPGET PRVAPSAHQNRPSRKPGTRPP NTQVARRKHYALADGYTER SATNAPCRAESSFPPELPVPOVP NTGFIQVTRFDCFVNTPQAAA SGFW

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23136	53504	A	23270	1000	1530	QRYSDNPPNDKGAQOPQRTQSR SARTNGSGVRILHSLWRIIGIPL LLGYSLVCSRVLLACFWPGSDF WPRSRRKTYGTAPQSCYSFYV ALDCGGVSRLLVIFVSRNPQV APTSAHQNRPSRNPVSRPNTQ RVARRKHIALADGYTERRWT NAPCRA/VEPFPNCPWEAQYRI
23137	53505	A	23271	242	711	LKQKRDKEDRSSRVSAVLLIK/ HRRPLPLIGLKACHCSCTAKC LGGCESPRKGGQLLIFEGHVKI DLEIFTKSLWLTQQLIVKKETEK AVKHASNICIMRTGLTFQSHKIE DGLFGLLVIAATEAWSYVCQST NPVDVYPLTAVPACCIASADV P
23138	53506	A	23272	2	459	CVNSQIGRGHKITTYPFSPRKS RKGMAQSQGWVKRYIAFCFK GFFVAVPVAVTFLDRVACVAR VEGASMQPSLNPQGSQSDVVL LNHWKVRNFEVHRGDIVSLVS AKNPEQKIIKRVIALEGDIVRFP *DFCMPMPHISCGPQSAGRNW
23139	53507	A	23273	1	474	
23140	53508	A	23274	358	948	PLTPFSRKSGRKGMAQSQGW VKRYIAFCFKGFFVAVPVAVTL LDRVACVARVEGASMQPSLNP GGEPV/ASDVVLLNHWKVTEF/ SEVHRGDIVFIG/APKNPEQKIIK RVICSLKGDIFQNHRTQKPDVK VPRGSHLGLGDHSDVDTVDFS NSFGPVSLGLLHAHATHILWPP ERWQKLESVLPERLPGTERRG MTA
23141	53509	A	23275	90	664	NKYRLQSPPLRLWDRASDPP APPEDPETAPAMEEDQELERKI SGLKTNMVEGERKTTLELV/Q AAGVTDRACTVFLHEEDHTLG NFLRYMIMKNP/EKVEFCGYT YG/HPSFQRAKLNLPHSRFRGY PPAVEPISREALNLMNVC/QP CAFTSFRASIKDYKESKSKQEM ESTFLVLLWQFYKGGTVL
23142	53510	C	23276	108	320	
23143	53511	B	23277	446	625	
23144	53512	A	23278	1	3042	
23145	53513	A	23279	1	3156	

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23146	53514	A	23280	518	2076	QQR*MCQNLMTHQNRSGR SQNDF*RRRKNISERSAVYR*R QLYIRRPQYAEPS\HVEDKGH KYLVEANTGTENG YQGEESLF NKAYYGGGTNFFRKESQKLQ SAKKRDAELANGALGIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLF TDSRGSK MTIDGINSNDIYMLGYVNSLT GPYKPLNKTGLVLQMG LDPND VTFTYSHFAVPQAKGNV VITS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEQGGQLTW LQVAKRAGLGGGSGRTVLRE RVRIEIASTHIALAVECVSVRV WKVPRLPSRQKYAKHASQLVS NQKSEEEYMKTFNISQQDLEL VEVATEKITMLYEDNKHVGA AIRTKTGEIISAVHIEAYIGRVTV CAEAIAIGSAVSNQKDFDTIV AVRHPYSDEVDRSIRVIPTYGT DEWEQWWNAFNEENLFCSEE MPSSDDEATADSQHSTPPKKKR KYIYVLVIAITMVMRFWQYING
23147	53515	A	23281	299	457	
23148	53516	A	23282	584	1185	QQR*MCQNLMTHQNRSGR SQNDF*RRRKNISERSAVYR*R QLYIRRPQYAEPS\HVEDKGH KYLVEANTGTENG YQGEESLF NKAYYGGGTNFFRKESQKLQ SAKKRDAELANGALGIELNND YTSEKSNEAADHFKHVPQAKG NNV VITSYMTNRGFFEDKKATF APSFLMNIKGNKTSVVKNSILE QGGQLTVN
23149	53517	A	23283	1	3618	
23150	53518	A	23284	191	819	VNVTSGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELPSIVIF EPRESVNKYHLPILKTFARSISS VTVFEVISGFITFFNV*SLFNSMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIAFIDKLLNV LICFSVSVKNRVIFHSVDFECV

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23151	53519	A	23285	2	2556	WRKIYQAN/GKTKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPRFI KQVLSDLQRDLDSYTIIMGDFN TPLSLDRSMRQKVKNKNTQEL NSALHQADLIDYRTLHPKSTEC TFFSAPHMHYSKIDHIVGCKAL LSKFKRTEIITNCLSDHSAIKLEL RIKKLTONCSTTWKLNLLND YWVHNEMKAEIKMFFETNENK DTTYQNLWDTFKAVCRGKFA LNAHKRQKERSKIDTLTSQKE LEKQEQTHSKASRRQEITKVRA ELKEIETQKTLQKINEFRSWFFE RINTIDRPLARLIKKEKREKNQID AIKNDKGDITDPTETQTITREY YKHLIYANKLENLEEMDKFLDT YTLPRNLQEEVESLNRPIGSGI VAHINSLPTKKSPGPDGFTAEFY QRYKEELVPFLLKLFQSIIEEGI LPNSFYEASIIPLKLRDIAKKE NFRPISLMNIDAKILNKILAHRI QQHIKKLIHHDQVGFIPGMQG WFDIRKSINVIQHINRTKDKNH MIISIDAEKAFDKIQPFMLKTL NKLVLVLELVRAIRQEKKEIKIQL GKEEVKLSLFADDMIVYVENPI VSAQNLLKLISNFSKVSQYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKSIKYLGIQLTRHVKD LFKDNYPALNEIKEDTNKWK NIPCSWIGRINIVKELEKTTLNI
23152	53520	A	23286	1	3087	
23153	53521	A	23287	1	741	MLGKKKPVCEVGGDSGVPKKE FQEGRQVLFLKLRGQANKVG DNSIDSWKNAGR VFKDSKDF ANDPILKDQTQEWSGSATFTSD GKIRLFYTDYSGKHYGKQSLTI AQVKVSKS/V*HTQNQRSGRSQ NDF*RRRNIS*RSAYR*RL YIRROPYAERPSHVEDKGHKY LVFEANTGTENG YQGEESLPNK AYYGGGTNFFRKESQKLQSA KKRDAELANGALGIIELNNDYT LKKVVKPLITSN

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23154	53522	A	23288	849	1688	QQR*MCQNLMTHQNPQSGR SQNDF*RRRNISERSAVYR*R QLYIRRPYAERP\HVEDKGH KYLVEANTGTENG YQGEESLF NKAYYGGGTNFFRKESQKLQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVTDEIER ANVFKNMGKWLFTDSRGSK MTIDGINSNDIYMLGYVNSLT GPYKPLNKTGLVLQMGDPND VTFYTSHFVAPQAKGNVVTIS YMTNRGFFEDKKATFAPSFLM NIKGKNTSVVKNSILEPQQLAV
23155	53523	A	23289	1	3171	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRIEITNYLSDHS AIKLELRINKLTQSRSTTWKLN NLLNDYVWHNEMKTEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKEERSKIDTL TSQLKELEKQEQRHSKPSRRQE ITKMRaelKEIETQ
23156	53524	A	23290	1	3255	
23157	53525	A	23291	1	3924	
23158	53526	A	23292	1	3139	
23159	53527	A	23293	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRINKLTQNRSTTWKLNLL LNDYVWHNEMKAEIKMFFETN ENKDTTYQNLWDTFKAVCRGK FIALNAHKRQERSKIDTLTSQ LELEKQEQTHSKASRRQEITKIR AELKEIETQ
23160	53528	B	23294	1	3127	
23161	53529	A	23295	1	3325	
23162	53530	A	23296	1	3145	

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23163	53531	A	23297	191	819	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDIT*PSM*ISFELIPSVIF EPRESVNKYHLPLFKITFARSISS VTVFVVISGFTFFNV*SLFNSMI PRAPFANSASRFLALC*SFWSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVAVAGCIAFIDKLLNV LICFSVSVKNRVFIHVSDFECV
23164	53532	A	23298	1	3352	
23165	53533	A	23299	1841	2679	QQR*MCQNLMT*HQNRSGR SQNDF*RRRNISERSAVYR*R QLYIRROPYAEPSIHVEDKGH KYLVEANTGTENGYYQGEESLF NKAYYGGGTNFFRKESQKLQ SAKKRDAELANGALGIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFDSRGSK MTIDGINSNDIYMLGYVNSLT GPYKPLNKTLGLVQMGLDPND VFTYSHFAVPQAKGNVNVITS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNLSILEQGQLTV
23166	53534	A	23300	1207	1533	YVHCKPSGWTVRTFDKPRKRFI AFFIAGILFRAIKNHFLPRETLQ CLPYILTGFRRGQSEYFSIFSNM DLADTVML*GAIRFSDLVNEQ IQHTFLIPGETICRLSEVV
23167	53535	A	23301	1	3253	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQGLDIDYRTLH PKSTEYTFSSAPHHTYSKIDHIV GSKALLSKWKREIITNYLSOH SAIKLELRKLNLTQSRSTTKLN NLLNDYVWHNEMKAEIKMFF ETNENKDDITYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLEKEQEQTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
23168	53536	A	23302	1	3095	
23169	53537	A	23303	2	2678	

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23170	53538	A	23304	1	3335	MVKGSIQQEELTILNIYAPNTG APRFKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRILH PKSTEYTFSSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLSDHS AIKLELRKIKNLQSRSTTWKLN NLLLNNDYVWHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEKIETQ
23171	53539	B	23305	1	2293	
23172	53540	A	23306	1	3810	
23173	53541	A	23307	255	1215	CVGQLAAAKR*RNSS*IQRLSR CVCSCGKPERR**HINLHVLSK GRRQLN/QTAGKTRAVSLKTAI SSTPTIRS*KIRKNGPVLPPLH LTEKSVYSTLTPTKAINLYSK PTREQKTDTKAKNLYLTKRTT AAARTSSVKKARSFSAALKNA MLS*RTAPSVS*S*IMITH*KK** SR/CITSNTVTDEIERANVFKMN GKWYLFDTSRGSKMTIDGINSN DINMLGYVNSLTGPYKPLNKT GLVLQMGDPNDVTLTNSHFA VPQAKGNNVVITSYMTNRGFF EDKKATFAPSLMNIKGNKTSV VKNSILEQGQLTVN
23174	53542	A	23308	1	4539	
23175	53543	A	23309	1	3229	
23176	53544	B	23310	1	3552	
23177	53545	A	23311	1	3139	
23178	53546	A	23312	1	3057	
23179	53547	A	23313	1	3215	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSLEREDIQTGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELREECRLSR CDQLEERVSA MEDEMNMKRE GKFREKRIKRNQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTRLDIHQENFPNLARQANVQIQ EIQRTQRYSSRRATPRHIIVRFT KVEMMEKMLRAAREKDRSTRQ KVNKDTQELNSA

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23180	53548	A	23314	1	1921	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFESAPHHIYSKIDHILGSK ALLSKCKRTEIHTNYLSDHSAIK LELWIKNLQNHSTTWELNNLL LNDYVWHNEMKAIEKMFFETN ENKDDITYHNLWDTFKAVCRGK FIPLNAHKRKQERSKIDTLTSQL KELEKQEQTNHSKASRRQEITK IRAELEKIEQTKTL*KINESRSW FFERINKIDRLLARLIKKKREKN QIDAINKNDKGDTTDPTEIQTIR EYCKHLYANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPIGT AEIVAIINSLPTKKSPGPDGFTA KFYQRYKEELVPFLKLFQSEK EGILPNSFYEASILIPKGRDIT KKENFRPISLMNIDAKILNKKL AKRIQQHIKKLIHHDQVGFIPG MQGWFNIRKSNVQIHINRAKD KNHMIISIDAIEKAFDKIQPFML KTLNKLGIKYLGIHLTRDVKDL FKENYKPLLKEIKEDTNKWKNI PCSWVGRINIVKMAILPKMCL* RRWTPCLLTAASLNRE*ERL VQPLLWRQMYCGPRHCRQVPQ HRRLNWSPSLRLS
23181	53549	B	23315	1	2907	
23182	53550	A	23316	584	1278	QQR*MCQNLMT*QNQRSGR SQNDF*RRRNISERSAYVR*R QLYIRRPYAERPSHVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFRKESQKLQQ SAKKRDAELANGALGIHLLNND YTLKKVMKPLITNTVTDEIER ANVFMNGKWYLF*DSRGSK MTIDVPQAKGNVVTISYMTN RGFEDKKATFAPSLMNIKGN KTSVVKNSILEQGQLTVN
23183	53551	A	23317	1	3345	

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23184	53552	A	23318	2	3366	WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQEEELTILNIYAPNTGAPTFI QQVLSDLQRDLDSHTLIIGDFN TPLSTSDRSTRQKVNKDTQELN SALHQADLIDIRTLHPKSTEY FFSAPHHTYSKIDHILGSKALLS KCKRTEIITNYLSDHSIAIKLELM IKNLTQNHSTIWKLNNLLNDY WVHKEMKAEIKMFFETNENKD TTIYQNLWDTFKAVCRGKFIAL NAHKRKQER
23185	53553	A	23319	1	2611	MGDFNTPLSTLDRSTROKANK DTQELNSALHQVDLIDIRTLH PKSTEYTTFSAPHHTYSTTDHIL GSKALLSKCRRTEIITNYLSDHS AIKLELRINKLTQNRSTTWKLN NLLNDYGVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKAVC RGKFIALNAHKRKQERSKIDTL TSQKLEKEQEQTHSKASRRQE ITKIRAEKKEIETQKTLQKJNES RSWFFERINKIDRPLARLIKKKR EKNQIDAINKDKGDIITDPTEIQ TTIREYYKHYANKLENLEEM DKFLHTYTLPRLNQEEVESLNR PITGSEIVAIINSLPTKSPGPDG FTAEDQRYKEELVPFLLKLFQ SIEKEGILPNSFYEASILIRKPGR DTTKKENFRPISLMNTDAKILN KILAKRIQQHIKKLIHHDQVGF PGMQGWFNIHKSINVIQHINRA KDKNHMIIISDAEAFDKIQQPF MLKTL SKLGIDGTYFKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPSPLLFNIVLEVLAIRIQ EKEIKLISNFSKVSQYKINQKS QAFLYTNNRQTESQIMSQLPFTI ASKRIKYLGIQTRDVKDLFKE NYKPLLKEIKEDTNKWKNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMTFFTELEKTTFKFIWN QKRARITKSILSQKNKAGGITLP DFKLYYKATVTTKTAWYWYQN

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23186	53554	A	23320	1	3099	MGELITPLSLDRSTRQKVNKD TQELNSALHQGDLDIYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYSLSHSA IKLELRINKLTQNRSTTWKLN LLNDYWIINEMKAEIKMFFET NENKDTTYQNLWDFAKAVCR GKFIALNAHKRQKERSKIDTLT SQLKELEKQEQTHSKASRRQEI TKIRAELEKETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
23187	53555	A	23321	911	1539	VNVTSFGSRPICSTSPVLSFGL* GPVKEFDT*PSM*ISFELIPSVIF EPRESVNKYHLPFILKTFARSISS VTVFVISGFTFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCRSRVGFYKVFMAFVFNVV RVSQRMVVGACIIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
23188	53556	A	23322	191	820	VNVTSFGSRPICSTSPVLSFGL* GPVKEFDT*PSM*ISFELIPSVIF EPRESVNKYHLPFILKTFARSISS VTVFVISGFTFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCRSRVGFYKVFMAFVFNVV RVSQRMVVGACIIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
23189	53557	A	23323	965	5050	TWKGTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLDIY RTLHTKSTEY/TFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRINKLNQSRSTT WKLNNLLNDYVWHNEMKAE IKMFFETKENKIDTTYQNLWD AFKAVCRGKFIALNAHKRQKQ RSKIDTLTSQLKELEKQEQTHS KASRRQETKIRAELEKETQKT LQKINESRSWFFERINKIDRPLA RLIKKKREENQ
23190	53558	A	23324	1	2787	
23191	53559	A	23325	1	902	
23192	53560	A	23326	1	3640	

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23193	53561	A	23327	1	3686	MHIVVETALSASWQNKAKPPA RVLLQVVPNVWFLVAVVWEL YPSLDLMDRSIECSSSPATEQS WTENDYDKLREEGFRRSNYSE LQEDIQTKGKDVENFEKNLEEC ITRITNTQKCLKELMELKTKAR ELREECRLRSRCDQLEERVSV MEDEMNMKQEGKFREKRIKR NEQSLQEIWDYVKRPNRLRIGV PESDGENGTCLKNTLQDIQENF PNLARQAKVQIQEIQRMPQRY LTRATPRHIIIVRFTKVE
23194	53562	A	23328	1	3433	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRTLH PKSTEYTFSSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRINKNTQNRSTTWKLN NLLNDYVWHNMKAIEKMFF ETNENKDDTTYQNLWDFAKAVC RGKFIALNAHKRQERSKIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELEJETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDAIKNDK
23195	53563	A	23329	1	3070	MEGEMNMKREGKFREKRIKR NEQSLQEIWDYVKRPNRLRIGV PESDGENGTCLKNTLQDIQENF PNLARQANVQIQEIQRTPQRY SRRAATPRHIIIVRFTKVEKEM LRAAREKDRSTRQKVNKIDTQE LNSALHQADLIDYRTLHLKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRINKNTQNRSTTWKLNLLN DYVWHNMKAIEKMFFETNEN KDDTTYQNLWDA

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23196	53564	A	23330	3	2372	TTNCLSDHSAIKLELRRIKKLTEN HTTTWKLNNLLNDYVVDNE MKAIEIKMFFEINEKK\DTTSQNL WDTFKA VCRGKLIALLNAHKRRK QERSKIDTLTSQLKK\LEKQEQR NSKASRKQEITKIRAELEIETQ KKTLLQKINESRSWFFKINKIDG PLARLIKKKREKNQVDAIKNDK GDIITDPTMQTTIREYYKYLY ANKLENLEEMDKFLNTYTLQR LNQEGIESLNRPTGSEIEAIINSL PTKKSPGPDGTFKQFYQRYKEE LVYPEPRSESECLSNIREFLRGC GASLRLESIREDRNGRSQKT VH TEGDMNMNIKKIVKQATVLT TTALLAGGATQAFAKENNQKA YKETYGVSHITRHDMLQIPKQQ QNEKYQVPQFDQSTIKNIESAK GLDVWDSWPLQNADGTVAEY NGYHVVFALAGSPKDADDTSI YMFYQKVGDNISDSWKNAGR VFKDSDFDANDPILKQDQTE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVSKSDDT L KINGVEDHKTFIDGDKTYQN VQQFIDEGNYSNGDNHTLRDPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSACKRDAELANGA LGIIELNNDYTLKKVMKPLITSN TVTDEIERANVFKMNGKWYLF TDSRGSKMTIDGINSNDIYMLG
23197	53565	A	23331	2	2987	APRFIKQVLSDLQRLDSHTIIM GDFNTPLSTLDRSTRQKVHKDT QELNSALHQADLIDYRTLHPK STEYTCFSAPHHTYSKIDHIVGS KALLSKCKRSEIITNCLSDHSAI KLELRRIKKLTQNRSTTWKLNLL LLNDYVWHNEMKAEIRMFET NENKDTTYQNLWDTFKA VCRG KFIALNAHKRRKQERSKIDTLTS QLKELEKQEQTTHSKASRRQEIT KIRAELEIETQKTL\QKINEISR SWFFERINK
23198	53566	A	23332	339	701	PDKEGNEIWDVDMYTVKPSGWT VRTFDKPRKRFIAFFIAGILFRAI KNHFLPRETLQCLPYILTGFRRG QSEYFISFNMDLADTMVFL*G AIRFSDLVNEQIHTFLIPGETIC RLSEVV
23199	53567	A	23333	190	502	

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23200	53568	A	23334	4472	8032	KKSGNNRLMRVHGKKRFLWQ KQGVCEVEIQARESARDGTD REDAESPHAEVTVPRGTRTEILT LWASDRDPASACGVTVPKGST THPGGMDRVCGVDTAVLHWM KQVQGISNLEVETGPRRRDMD EAGSRHSQQTNIGTENQTPHVL THKWQLNRNSACDKLHKPHSV PGGVAAGDVGGKTSNPGVCAI EYQVDGSPHIWEDVNKGVIIEE DRAPLMERSSSPAMEQSWMEN DFDELREEGFRRSNYSELRED
23201	53569	A	23335	1	2374	MVSIIDLVICPPRHPKVLGLQGP PGLDSIDPSAGAGFLDWEIG MPGPGRAGHQALCKDCQCLE KTTTKAPGKMPKSTRSGPVRV RLADGPNRCAGRLECGMPDAG EQCVMTTGTSGRHCGLLGTGL WKGYTDLTHPPGPGTPPQERTC QGDYHSGGTWTHSPLETTTRP GSSSPAIRRLPAQMLLLPARPPH PRSSSPEAMDPPPKAPFPKAE GPSSTPSSAAGPRPPRLGRHLLI DAN/GVYPYTYTVQLEEEPRGP PQREAPPGEPPRKGYSCPECA RVFASPLRLQSHRVSHSDLKPF TCGACGKAFKRSSHLSRHRATH RARAGPPHTCPLCPRRFQDAAE LAQHSWGTTPRGPLLAACNCE VARGRLSPGPERLLHGYGGRE EEGGWGAAAGGLDRVEGFISS KAHHYLLIDTQGVPTVLVTRS HRGSQGPVGLQARKVLQLPRV LKGLRVHVLQRHSITHSEVPQ DFAGSLDSFQTPGESLRLVFRA LDTTQSSRISKAEPCLKEEPLSL GDLPYMHTTLCFCRKRASPGP GTLQRGALAWPDWASPRALPV PSLSSTTRSPAAPLFAVPLSGRT TQAMAFDGHIFQGQSQRASGLT TTSRFLACQRLRLCAWWASRS PRCTLRPPVGLRPGVIHPRRLV YRDLKPNVMASGQPRDRPQP WFAWPPRPRTRFCGGCWTLTPK

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23202	53570	A	23336	853	1602	PGAAWSRDLRGCTCEPQPALR MLVLASPCQPLAFSSVETMEG PPRRTCRSPPEGPSSSIGSPQASS PPRPNHLLIDTQGVPTVAW/ LDEESQREPGASGAPGQK KCYS CPVCSR VF EYMSYLQRH RFSH SEVKPFECDICGKA FKRSQHL/ SARHHSIHLGGWVG GPTACRF C PRRFRDAGELAQHSRVHSGER PVSVSTLPSPLYGAETHAETHA VEASHEAGLPGAPGTHRTLQG ALDSCPD TW
23203	53571	A	23337	1	1144	MGHHLMDKLVALGGLYYAIQ RHYATKCSVLKNDQILVIGLFM IQNVIRKHFANPLSALFLQQGI ELFAAIAEIHITVAERNHAITQI RLEAQITFDSLKEWHNAIRKSL DYEALQAFEFRVGATDRGFPAL SSEALVRVLVDANDNSPFVLY PLQNGSAPCTELVPRAAEPGYL VTKVVAVDGDSGQNAWLSYQ LLKATEPGLFGVWAHNGEVRT ARLLSERDVAKHRLVVLVKDN GEPPRSATATLQVLLVDGFSQP YLPPLPRAAPAAQAADSLTVYL VVVALASVSSLFLFSVLLFVAVR/ LCRRSRAAPVGRCSVPECPPFG HLVDVSGTGTLSSQSYQYEVCLT GGSGANEFKLPVIPNLLSRDS
23204	53572	A	23338	1	1260	MVCYIQENLPFLKPSVENFYIL ITEGALDREIRA EYNITITVTDL GTPRLKTEHNITVLVSDVNDNA PAFTQTSYTLFVRENNSPALHIG SVSATDRDSGTNAQVTSLLPP QDPHLPLASLV SINADNGHLFA LRSLDYEALQAFEFRVGATDRG SPALSREALVRVLVDANDNL/ PFVLYPLQNGSAPCTELVPRAA EPGYLVTKVVAVDGDSGQNA WLSYQLLKATEPGLFGVWAHN GEVRTARLLSERDAAKHRLVV LVKDNGEPPRSATATLHVLLVD GFSQPYLPLEAAPAAQAQAEAD LLTVYL VVALASVSSLFLLSVL LFVAVRLCRRSRAASVGRCSM PEGFPGRGLVDVSGTGTLFQSY QYEVCLTGGSETGEFKLKPITP HLPPHRRGGKEIENSTLPNSFGF

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23205	53573	A	23339	123	5794	SSSDSGSLKGACTEVKMEPAGE RFPEQRQVLLILLLEVTLAGW EPRRYSVMEETERGSFVANLAN DLGLGVGELAERGARVVSSEDN EQGLQLDLQTGQLILNEKLDRE KLCGPTEPCIMHFQVLLKKPLE VFRAELLVTDINDHSPEFPERE MTLKIPETSSLGTVFPLKKARD LDVGSNNVQNYNISPSHFHVS TRTRGDGRKYPELVLDTELDRE EQAELRLTLTAVDGGSPPRSGT VQILILVLDANDNA
23206	53574	C	23340	20	313	
23207	53575	A	23341	119	247	RSRCISASPRRPASFRKSIPEEED ESLNI*KGQVSILFFYIK
23208	53576	B	23342	55	288	
23209	53577	A	23343	1	3576	MAFLFEFSDLVSLLSIGTMLAY SLVAFSVLVLRYQPDENFSKNE KPKEEVVEMNSVPKAESPACVP EASSTPASLWSPVSTIPTPRWGR IVYGCAFLLVLLSMLCLVLAH WPKRLFSGELIYIAAAVLLVLI VGFTFTVWRQPSQNTPLYFKPP HISTSQNLSLPEHPMEYLLRTGI EPDVRGVLTVNALPAGPPVACS PLVSISAHVYLMQMATTETWA QCGVWMLIALECPNLKCLKPP WLHMLAMTMYA

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23210	53578	A	23344	3	1762	SVRPGPGHVRVRFSLSPPLR PWPLCPAARRTMGSILSRRIAG VEDIDIQANSAYRYPKSGNYF ASHFFMGGEKFDTPHEGLFG ENMDLNLFGSRPSQFPVTPAP HEPVKTLRLSVNIRKDSLRLVR YKDDADSPTEGDGKPRVLYSL EFTFDADARVAITICYQASEEFL NGRAVYSPKSPSLQSETVHYKR GVSQQVSLPSFKIDFSEWKDDE LNFDLDRGVFPVVIQAVVDEG/ DSVVEVTGHAHVLLAGFEKHM DGSFSVKPLKQKQIVDRVSYLL QEIFYGIENKNNQETKPSDDENS DMSNECVVCLSDLRDTLILPCR HLCLCTSCADTLRYQANNCPIC RLPFRALLQIRAVRKKPGALSP VSFSVLAQSLHDEHSCPFKK SKPHASPLASKKPKRETNDSV PPGYEPISLLEALNGLRAVSPAI PSAPLYEEITYSGISDGLSQASC PLAAIDHILDSRRQKGRPQSKAP DSTLRSPPSPHEDDEKLSEDV DAPPLGGAELALRESSSPESFI TEEVDESSSPQGGTRAASIENVL QDSSPEHCGRGPPADIYLPALG
23211	53579	A	23345	35	3134	RPREGPTWPQLPGSSPRRLFPW SPGSSSRGLFPWSPGSSSRGLF WSPGSSSRGLFPWSPGSSSRGLF PWSPGSSSRGLFPWSPGSSSRGL FPWSPGSSSRGLFPWSPGSSSR GSSRGHPGPPPGSSRGHPGPPP GALPVVTRVLLPGLFPWSPGSS SRGLFPWSPGSSSRGLFPWSPGS SSRGLFPWSPGSSSRGSSRGHPG PPPGALPVVTRVLLPGLFPWSP GSSSR/RTLPPVTRLLSGTLVP VTRVLL
23212	53580	A	23346	3	91	
23213	53581	A	23347	3	174	
23214	53582	A	23348	3	360	
23215	53583	B	23349	158	368	

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23216	53584	A	23350	3786	4928	PPPARTRPCASLTPEKAKWWRSS KPGLTRAPARGLSSPQTGSCS APASAG*VSGNSRSGTRRGLRP TRG*GPCGPSSRAAIISSPRAS/L RMSQRELGLWDPNNFEEPVAL QEMDTNSGVLLPFYDPSSIVY LCGKVLTAGQGEQGTGWRCG GPCPGAPLNRLLQGDSSIRYFEI TDEPPFVHYLNTFSKEPQRGM GFMPKRGLDVSKCEIARFYKLH ERKCEPIHMTVPRKSDLFQDDL YPTDPGPEPALEADEWLSGQD AEPVLISLRDGYVPPKHREL RV TKRNILDVRPPSGPRRSQASDA PLSVRSALLHSGPIYISPNRPYTT RPLCPPPQQHTLETLL EEIKAL RERVQAQEQRITALENMLCELV
23217	53585	A	23351	1	1898	MSRKGPRAEVCADCSAPVGPD FALAISELVSPDIFMQSHSENAIS VKEIVTIESISQGVGQIQLKGD LPNPCHTPKKNSIHELL LERAQT PENKPGHMEQDEDSCTAQPEL AKDSGMCNPEGCLTTHSIA DL EEGEQLRGNKSSRAQGCTQNS KNDSSVADLAPKGSDEAPPEH SFVLKEPEMSKGGKYSGSEA GSLSHSEQNATVPAPRVLEFDH LPDPQEGPGPEASNLKVSQKS EGSQSSSRSPLEFLKEAGVPNQ TLSSGTPDPYFMA LLGPKLNSR RPHLHPVSHTLDLGNPPLPQQ FAKQCRGRKGPEGKYPLHYLV WHNRHRELEKEVRAGQTLITQ TLSQANPTAITAE EYFNPNFELG NRDMGRPMELTTKTQKFKA KL WLCEEHPLSLCEQVAPIIDLMA VSNALFAKL R D FITLQIPFHILN ARITFGNLNGCDEPVPSVRGSPS SETPSGSDSSSVSSSSSTSEAPR ENACPSALPGVASCRCGEISPAL FEAPRGYSMMGGQREAAATRDD DDDLLQFAIQSSLLEAGSEYDQ VTIWEALNSKPGTHPMSYE/R SPTGQGVPAATCSG/R YDEQL RLAMELSAQEQEERRRRARQE EEELERILRLSLTEQ
23218	53586	A	23352	341	711	

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23219	53587	A	23353	57	719	TSDLMAEIIQERIEDRLPELEQL ERIGLFSHAEIKAIKKASDLEY KIQRRITLKFEDFINYVQRIYGF KKDEIENSIVHRVQGVFQRASA KWKDDVQLWLSYVAFCKKWA TKTRL SKVFSAMLAHNSNKPAL WIMAAKWEMEDRLSSESARQL FLRALRFHFPECKLYKEYFRM ELMHAGKTGGRRNKLNKKPV WMWRILILKKSLRASWHGSST
23220	53588	A	23354	27	352	TESVVTIMSLNKKPKSEMTPEE REEEEFNTGPLSVLTQSVKNNT QVLINCRNKKLLGRVKAHDR HCNMVLEINVKEMLTEG/DRYI SKMFLAGDPVIVVLRNPLIAGK
23221	53589	A	23355	32	575	STRLDLPKCWDVRSILFNKP EMTPAEELQKREEVEFNTGPTP LCLTQSVKNNTQSAQSTCRNN KKLPGAA*RPFDRA SPCCPPGT CNMVLINVKEMWT*GTQEV GKGKEGSSKPVNKDRLTSSKM FPGGGGFSSVPCGNPFHSAG QIRGPPVLFDKNSHPLVLLKTA CHLVFENY
23222	53590	A	23356	103	713	VTSGCGKKKVVWDPNETNEIA NANFRSADPRLIKDGLIIRKPV TVHSRRLPEKTPLARCKGHG TLGIGKRKGTANARMPKEGHH GMRRMRILAPACSRRYRESKKI DRHMYHSLYLKVKGVNFKNK ADFSWEIHKAEGRARPRKEAS WLDQAEARRSKDQKGHGKRR EERLPGQRKEINQRLYSKEGR RPRNKNLTL
23223	53591	A	23357	1	2847	
23224	53592	A	23358	1	2823	
23225	53593	A	23359	3	2858	AMFGFQRRGLGTPRLQLWLL LEFWGVGSGQLHYSVSEEAH GTFVGRIADLGLLELAELVQRL FRVASKTHGDLEVNQNGILF VNSRIDREELCGQSAECSIHLE IVDRPLQVHFVNVEVKDINDNP PVFSLREQKLLIAESKQSDSRFP LEGASDADIEENALLTYRLSKN EYFSLDSPNTNGKQIKRLSLJL SLDREKTPELNLLLTATDGGKP ELTGTVRLVLVQVLDVNDNDPE FDKSEYKVSMLMEN

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23226	53594	A	23360	194	931	NSPVVPVMSAGQFVNKLQEEVI CPICLDILQKPVITDCGHNFCPQ CITQIGETSCGFFKCPLCKTSVR\ RDAIRFNSAVAIEIWWKIQALQ ASEVQSKRK\EA\TCPRHQEMF HYFCEDDGKFLCFVCRESKDH KSHNVSLIEEAAQNYQGQIQEQ IQVLQKKEKETVQVKAQGVHR VDVFTDQVEHEKORILTEFELL HQVLEEEKNFLLSRIYWLGHGEG TEAGKHVYEIPLMPTVERSQEA
23227	53595	A	23361	2	381	AINWTSARPVSQWDP\CPPSQ VVCLAGLPP*RVQCNPVKGP\N CPLAHTSEPTGHCLL*TRGMCF PSLCGQLCP*SGPPDCPSRALH HTGFCPVALLVAESQVRARAC GPEPHRAGRASRWCLHAG
23228	53596	A	23362	213	574	PQTHGTGNHSEGRQPITRSPEKP EP\CPKRAPQTQQP\PWAPSLC PPALGPKGTRRPRVQVHRPTS SQKCPLPAWFHHLPLWPTSAAR SSSTETPTGQMRKLRLHPAAPR SANALSLGE
23229	53597	A	23363	21	456	
23230	53598	A	23364	2	98	
23231	53599	A	23365	64	241	PWPLASNPRGCLP*PSTLN*PTP SSQPGMSLDSLDRHPP*TRETAS GIGGQRPQSDPARTPHFISQTQ
23232	53600	A	23366	209	353	

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23233	53601	A	23367	1766	3292	SSCPTRVLIMKGAGHPCYLDK PEEWHITGLDFLQGLQLWLMH MQQLMSLAVVSGRLSRGCGT ERPSRRAAAAAAGQFQRGHF QHIEERLETNVQNCQSPDTLCP THCSPVLNEPCPEVSVAVAPA SPDRMSGSDGLEEEPELSITLT LRMLMHGKEVSGIIGKKGETV KRIREQSSARITISEGSCPERITTI TGSTAAVFHAVSMIAFKLDEDL CAAPANGGNVSRPPVTLRLVIP ASQCGSLIGKAGTKIKEIRETTG AQVQVAGDLLPNSTERAVTVS GVPDAILLCVRQICAVILEGFSV QQQYGA VTPAEVTKLQQLSSH AVPFATPSVVPGLDPGTQTSSQ EFLVPNDVSRGWDGWRLIGCVI GRQGVTKINEIRQMGAHIKIGN QAEAGAGERHVITITGSPVSIALA QYLITACLETAKSTSGGTPSSAP ADLPAPFSPPLTALPTASPLAC WAHPMPSPSPTLIGFKAHALLG FTTCFPRAAAGLGLHRQDGSS
23234	53602	B	23368	1	363	
23235	53603	A	23369	486	947	LDGAGLLAPVKAHLQKKGPRL GTRGCAMPRLGSTPFLKGQCL ANSRNTLEAVSLTESSASRVPP APVLGSRPPHSPSPWP/P/YTYP VPPPPRMALVPPNMHGQGTVG LTSVPLACTVAMLGSYKQAGA FGPLANCYGGGLGHAQCWQGEF CPTQCP
23236	53604	A	23370	38	680	GSRLRLQAAAAARPALPLPLPP WEWKHLPHVPEAKWWLTTAR HSAAYRADPLRVSSRDKLT AASSQGNFEGNFESLDLAFAK KQPWWRKLFQGESGSPSAEKYS VATQLFIGGVGTGWCTGFIFQKV GKLAATAVGGGFFLLQLANHT GYIKVDWQRVEKDMKKAKEQ LKIRKSNQIPTEVRSKAEVVSF VKKNVLVTTGGFFGGFLLGMAS
23237	53605	C	23371	30	200	
23238	53606	A	23372	14	161	

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23239	53607	A	23373	69	715	APALPGCEHMMAIRLKVCLL GDTGVGKSSIVWRFVQDHFH NISPTIGASFMKTVPWENDF KFLIWDTAGQERFSFIGLPL YYSRLQLAAVYSCGYLPSRDF IFITLKEWVVKRLKELGPNIV MAIAGNKCDSLDIRVPPPEGML KEYAESIGAIVVETSAKNAIN NEELFGQISRQIPPLDPPMK NGKQWHDQKLRSQPMQASRRCC
23240	53608	A	23374	3	293	VTSTMAYRAQGQKVQKVMV QPINLIFRYLQNRRIQVWLYEQ VNMRIEGCIIGFDEYMNVLDD AEEIHSKTKSRKQLGRIMLKGD NITLLQSVSN
23241	53609	A	23375	3	393	HESCSQRQRAGCALCENSHPW RSRGPVQKSAEGLWCQPICT SSSRYLQNRJAGFQVWLYEQV NMRIEGCIIGFDEYVNLVDD AEEIHSKTKSRKQLGRIMLKGD DNITLLQTCPLPPRMVHGSGEIV
23242	53610	C	23376	129	425	
23243	53611	A	23377	470	635	ENSSSHHIKPFSSGCSIHGFSGH INVTSVTIL*PIKSCHIRCHF*CA QYMVADN
23244	53612	A	23378	71	566	PLFPPCLSPVAVAGWARGHMLG QSHQQVAAPLKHRIPTTELCLQ KCLSLIKTKFLNAYITVSEEVA LKHAESEKRYKNGQSLGDLD GIPIAEKDNFSTSGIETTCA SNMLKGYIPPNATVDQKLLDQGA LLMGKTKLNDFAMGSGSTG GVFGPVKNPWSYSK
23245	53613	A	23379	255	1042	ILAAARMGKQNSKLRPVEMQDL LESTDFTEHEIQEWYKGLRDC PSGHLSMEEFKKIYGNFFPYG DASKFAEHVFRFTDANGDGTID FREFIIALSVTSRGKLEQKLKW AFSMYDLGNGYISKAEMLEIV QAIYKMVSSVMKMPDESTPE KRTEKIFRQMDTNRDGTWVPH LALIYRTAEGGFVQRAVSFY PPPSAGNAMVNEAAVFLEIPLG SSPGQVSAVCHSGRKL SLEEFIRGAKSDPSIVRLQCDPSSAGQF

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23246	53614	A	23380	1	721	MDGNLRKIRFEKHAITEEFRTT EPGLAALRLPSTWIRGVRTSES KREVGKGGQSQQYENRDTEGE GHVMTKARDWSKAAASQRLP ANHLLRLCIDGFRSHSLPEEGP KKPCQHHAQEPEPTRSGRLPQ AHEGSISDCCTSSEQGSM DIGSV EPGTGYNNLVCHLL/STLEKRSI WAGVSRFSRYHLRLPLARK/G NPLTPCASQLLLPLPSTTQKRQS GHALYSFPYRPQPKNDNLVMP
23247	53615	A	23381	80	562	DRAMWGDWLWLLPPASANPGT GTEAEFEKAAEEVRHLKT/RSPS DEEMLFIYGHYKQATVGDINTE RPGMLDF/TGKA/KWD/AWNEL KGTSGDVAEAYL/NQV/EELK KKYGDMERLDLVTVPVYPKP ETIPFFFSNTVDGWEFRENNPV KPAQTQRLLTHTGS
23248	53616	A	23382	380	1041	EVTINSGFIFIMLFMEHPEHYTI MHKWILT/WILPTLLYRSCFHIIC LVGTISLACND/MTPEQMATNV NCSSPERHTRS DYMEGGDIRV RRLFCRTQWYLRJDKRGKVKG TQEMKNYNIEMIRTVAVGIVA IKGVESEFYLAMNKEGKLYA KKECNED/CNFKELILENHYNT YASAKL/WTNGGEMFVALNQ KGIPVRGKTKKEQKTAHFLP MAIT
23249	53617	A	23383	127	549	SSPKMAATMKKAAAEDEVNVT EDQ/QKINKFARNTSRITELKEEI EVKK/KQLQNL/EDACDDIMLA DDD/CLMIPYQLGDVFISHSQE ETQEMLEAAKNLQEEIDALES RVESIQRVLADLVQLYAKPFG SNINLEADES

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23250	53618	A	23384	1	2050	MEYESMVISFDDRVMEKTEYG PIFTVFAMGNRMFTVTEEGIN VFLKSKKVDVELAVQNVYRTA SIPKNVFLALHEKLYIMLKGGKM GTVNLHQTGQLTEELHEQLEN LGTHGTMDLNNLVRLHYVPVT VNMLFNKSLFSTNKKKIKEFHQ YFQVYDEDFEYGSQLEPCLLRN WSKSKKWFLFEKNIPDIKAC KSAKDNSMDSDEDPVNLQSR ALVCEMLHVQRSSDADAIGPH ADHSLSNRWEVILADEHGIAD DMISRYALSEKSQVELSTQVIKS ASSKSVNKSIDITSVFLNWYN EKKMIRAYATVIDGPEYFWCQF ADTEKLQCLEVEVQTAGEQVA DRRNCPYIGDPICIVRYREDG HYRALTINICEDYLVSVRLVD FGNIEDCVDPKALWAIPSELLS VPMQAFPCCLSGFNISEGLCSQ EGNDYFYIITEDVLEITILEIRR DVCDIPLAIVDLKSKGKSINEK MEKYSKTGKSALPYENIDSEIK QTLGSYNLDVGLKKLSNKAQV NKIYMEQQTDELAIEKDVNI GTKPSNFRDPKTDNICEGFENP CKDKIDTELEGVSQKAQESMC TEDMRKSSCVESFDDQRRMSL HLHGADCDPKTQNMNICEEF VEYKNRDAISALMPFSLRKKKA VMEASTIMVYQIISQLNYRPTL
23251	53619	A	23385	3	602	TRPPTRPGLSPDPTSPTEADRGV CERPHRCFLLPQITHPSSGRRL CLLSPTSFDFSLYESQSDRAIF GVGTEPDQEPPIPYHEQVPVSV YHPTNPSQTWVATQLTEEQIRI AQRIGLIQHLPGVYDPWRDG SEKKIRECVICMMDFVYGDPIR FLPCVHEWYHLDCIDDWLMRS FTCPSCMEPVDALLSSYETN
23252	53620	A	23386	33	512	TAARCOGGPTHVPFVGTACP TRIPGHAPARQCREYYY*YYVD F/WKEPRRCHAILLPWAGLEV GMPPSHTQLGMHPAPPPHLEV KAQGPSNRQRIDGCRWCSCR ASALGGGRQDSRLRERGGGYD H/HCPICRSLKIQLKCHPASGPQ TVLGLRLASVS
23253	53621	A	23387	1	1731	
23254	53622	B	23388	1	706	

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23255	53623	A	23389	1	1986	MGIGEGPTTSEGCRSEVEYSHQ KSELPLSGDSQVPGPIGNCNDP QGSVSSQCDAAAGQCQCKAQVE GLTCSHCRPHHFHLSASNPDGC LPCFCMGITQCCASSAYTRHLIS THFAP/GDFQ/GFA/LVNPQRNS RLTGFTVEPVPEGAQLSFGNF AQLGHESFYWLPEYQGGDKG EAYFARMRRAHQNRSTLSEEQ LRAAVTAGRIPEPPEGRDWAQR ASQFSLSYEGFSLPGSLYYWQ LPRAFLGDKVAAYGGKLRITL SYTAGPQGSPLSDPDVQITGNNI MLVASQPALQGPERRSYEIMFR EEFWRRPDGQPATREHLLMAL ADLDELLIRATFSSVPLAASISA VSLEVAQPGPSNRPRALEVEEC RCPPGYIGLSCQDCAPGYTRTG SGLYLGHCELCNNGHSDLCHP ETGACSCQCHNAAGEFCELCA PGYYGDATAGTPEDCQPCACP LTNPENMFSRTCESLGAGGYRC TACEPGYTGGYCEQCGPGYVG NPSVQGGQCLPESELHFPVSQ PSDAGVYICTCRNLHQSNTRSRA ELLVTEAPSKPITVTVEEQRSQS VRPGADVTFICTAKSKSPAYTL VWTRLHNGKLPTRAMDFNGIL TIRNVQLSDAGTYVCTGSNMF AMDQGTATLHVQGSAAEAGERS MYSISVLLKYTS
23256	53624	A	23390	3	13319	PASGR.LRAARSGRGASERESG AGRAMGWRAPGALLALLH GRLLAVTHGLRAYDGLSLPEDI ETVITASQMRWTHSYLSDDDEYM LADSISSGDDLGGSDLGSGDFQM VYFRALVNFTRISIEYSPQLEDA GSREFREVSEA VVDLTLESEY.LKI PGDQVVSVVFIKELDGWVVFVE LDVGSSEGNADGAQIQEMLLRVI SSGSVASYYVTSPPGGFQFRRLGT VPQFPRACTEAEFACHSYNECV ALEYCDRRPDCRDMS

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23257	53625	A	23391	41	1323	HYLVFFLPRLRRYTVSLSPNSTS YQLLVPGPSY/SALPISSAASLY AGA/GGSGSRMSVSHSTSLRDG ISSGGLA/TGMARGLGGMGGIQ NKKETTQSLNDSLAVRVSLET ENRKLESKIREHLEKKGQVVRD WSHYFKTIEDLRAQIFANTVDN VRIFLQIDNARLAADDFRVKYE TELAMRQSVESDIYGLHKVIDD TNVINGCSFFMKKNHGEEVKC LQAQIASSGLTMEVDAPKSQDL AKITADISTRYDELARKNREEL DKYWSQPIEESTTEVTMQSAKV RAAEMTFMELRRTVQSLIEDLD LMRNPKASLENSI.REVEACYA LQMEQLNLDP/GILLHLESELTO TRAEGQLQAQKYKALLNIKNK LEAEIATYCLLEDGKDFNLGD TLDSSNPMQTIQKTTTSRIVDG KVVSETNDTKVWRH
23258	53626	A	23392	1	771	SCSWTPSAAWPPNASLHSCCLKR RNQDHLLWDWRFDFPSSMA SKCQSPLLPQKKKPRPLPALGP EKTSASAGLPKKGEKEQETIE HIHEVQNEMDRLEQAKRSEL ISKIPDFWVTIFVNHPEVSALPG EEDEEALHYLTRVEMTDFDDIK SGYRIDFYFDENPYFENNILAKE FHLNESGDPSSKSTEIKWKYGG DLMKRSSQTQNKAKHRKQHEE PESFFTWTDHSDVGADELGEV IKDIWPNPLQYYLVPMDNDEEG EGEEDDDDEEEGLEDEEG DEDEGEDEDEGEKGEDEGE
23259	53627	A	23393	732	1656	
23260	53628	A	23394	3	923	ARRLVVWFDFPNSMAPKRQS PLPPQKKKPRPPALGPEETSAS AGLPKKGEKEQQAIEHIDEVQ NEIDRLNEQASEEILKVEQKYN KLKRPFFQKRSLSAGIPNFVV TTTFVNHQVVSALLGEDEEAL HYLITRVEVTEFEDIKSGYRIDF YFDENPYFENKVLSEFHLNEIS GDPSSKSTEIKWKSGLDLTKRS SQTQNKASRKQHEEPESFTTW FTDHS DAGADELGEV IKDDIWP NPLQYYLVPMDNDEEGEED DDDEEEEGLEDEEGDEDEGE EEDEDDDEEGEEDDEGEDD

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23261	53629	A	23395	732	1656	SCSWTSPAAWPPNASLHSLCKR RNQDHL LLWDWRFLDFPSSMA SKCQSP LL PQKKKPRLPALGP EKTSASAGLPK KGEKEQQETIE HIIIEVQNEMDRLNEQAKRSEL ISKIPDFWVTIFVNHPEVSALPG EEDEEALHYLTRVEMTDFDDIK SGYRIDFYFDENPYFENNILAKE FHLNESGDPSSKSTEIKWKYKG DLMKRSSQTQNK AHRKRQH EE PESFFT WFTDHS DVGAD E LGEV IKDIWPNPLQYYLVPDM DNEEG EGEEDDDDEEEGLE DIDE EG DEDEGEDEDEGEKGEDEGE
23262	53630	A	23396	3	924	ARRLVVWFDFPNSMAPKRQS PLPPQKKKPRPPALGP EETSAS AGLPKKGEKEQQE AIEHIDEVQ NEIDRLNEQASEEILKVEQKYN KLARQPFQKRSLA SAGIPFW VTTFVNHPQVSALLGEDEEA LHYLTRVEVTEFEDIKSGYRID FYFDENPYFENKVLSEFHLNE SGDPSSKSTEIKWKS GKLTKR SSQTQNKASRRQHEEPESFFT WFTDHS DAGADELGEVIKDDI WPNPLQYYLVPDM DDEEGEGE EDDDDDDEEEGLE DIDE GDED EGEEDDDDEEGE EGEDEGED
23263	53631	A	23397	1	1393	MGKQKGGGPQAWA EGLGRE WMRMPQEGKGSRKSTQKQT KREIDAYIVAKERSYETVLSF GKRGLNIAASPAVQAATKVLW APSPPAAPIPPLRPFGLQLCCQG AQRWQPGSREVKGRLCQARLA ETSSIAGNLRVQSYERPVDPGV TMDPPLPGRTIVFAAGDHTLW RAPVSSCAQRSGVWSLDNMGV NSGSVPFHGVRIQASQLISFN FSFCEADLKTPLHGFLIPAGPK EEVTVKKEKRERDRDRQREGH GRGRGRPEVIQSHIFEQGPAE MMKKKGNWDKTV DVS DMGPS HIINIKKEKRETD ETKQILRML EKDDVDHHA LSEHLVTTATFSI GSTGLVVYDYQQVECGHVRA DLKTQDLYSHAQFGDNNYPGG VDWYRAGGLQSDTEDECWS DTEAVPRAPARPREKPLIRSQSL RVVKRKP PVREGTSRLKVRTR KKTVP SDVDS
23264	53632	A	23398	297	584	

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23265	53633	A	23399	2	149	CMKFGAVTPIGGPPLGDQSPVL LLFAL*KRSTYNLGSSDPPAQGI SHQF
23266	53634	A	23400	1	170	PAGIRHEERSTYDLWSSDRPGQ GTSHQF*IRFQIPWNSGPRLSE* LLPRSSRLSS
23267	53635	A	23401	1	1077	
23268	53636	B	23402	289	1359	
23269	53637	A	23403	3	2233	
23270	53638	A	23404	1	1491	
23271	53639	B	23405	76	511	
23272	53640	A	23406	1	2706	
23273	53641	A	23407	273	862	
23274	53642	A	23408	1	1080	
23275	53643	A	23409	134	675	MHYFHSSVQIGLPLTRRSQVLIL PQPLLNPILLSPPLLTPVPAYS FIL/PTSPPPPARQFPLKKVAEAK GIVKQLKTDARTSPRKPTGPSQ TLWVTLTVEDLKHAFITPLHP SSQPLFAFTWTDPDTHQAQQIT RAVLQVFTDSPHYFSQAQISSS SVTYLGILLIKTHVLSLLIMSG
23276	53644	A	23410	1	895	MEVHKHPFNTALRHHESGCEL VWAEKHRNQIFFPKSTASPKQ WDTGRHNSDAKQQEPGGREER NTMEMETKETHFIRGPKTLASV TDWEGSLPLVFNHCRGTSIIHP RFKGVPRPRDACLGPSPLAASP AFLGKGQHALKGLKPVITRLLQ HGLLKPINSPFPSILPVLKPKDK AYKLQVNLRLINQIVLPIHPVVP NPYTLSSIPPSTTHYSVLDLKH AFTIPLHPSSQPLFAFT*TDPT H*AQQITWAVLPQGFTRQPLL QLSPNFILICYLSRHNSHKNTA LPADRV
23277	53645	A	23411	1	930	MIQEHADKQVQRLQGVLGSI TAASRARLHPGEINNHVAHTEP VWWSLHMDAYEIWCRGSDRR TSLGRSIPPLPACSLRRIHLRPQ VLRSTSPRNISPISNPGHLSDYTP TFQGCQTMQGRLPWSFTLSGK SRFSGEGATQRYPIPQQAALKG LMPAITRLLQHGLLKPINSPYHS PILPVLKPKDKPYKLVDLRLINQ IVLPIHPMPVNPNYTLSSIPASTT HYSVLVYVKHAFFITPLHPSSQP LSTFTWTDPDTHQAQQIT*AVL PQVFTDSPHYFSQAQISSSVTY LGIILHENTRALPADHV

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23278	53646	A	23412	299	1028	RLGSFSSNHPYLQGRQYPIPQQ ALKGLKPVITCLLQHVLLKPVN SPYNSPILPVQKLDMPYRLVQD LCLINQIVLPIHAMVNPYTLT SIPPSTTHYSVLDLKPFAFTIPLR LSFQPLFTFSWTDPDTHQAQOI TRAVLPQSFTDSPHYFSQAQIS* RLGSFSSNHPYLQGRQYPIPQQ ALKGLKPVITCLLQHVLLKPVN SPYNSPILPVQKLDMPYRLVQD LCLINQIVLPIHAMVNPYTLT SIPPSTTHYSVLDLKPFAFTIPLR LSFQPLFTFSWTDPDTHQAQOI TRAVLPQSFTDSPHYFSQAQISS SSVTYLGIPGFAILTKPLYKLT GNLADPIDPKSFPHSSFRSLKTA LETAPILALPVSSQPFSLPTAEV WAAQSEFLHKNRDRTE
23279	53647	A	23413	157	202	RSECARWMEK*CPWL
23280	53648	A	23414	184	482	EGVSVFLLSPYQGPQVSRRC S/RQVSQRCPHRRGRPCPVQS RSHGPSWVGHGMPPLYGS/EQF YCGAPLAGPPNGSRGESLKIS VWIFPCRDGFGNFN
23281	53649	B	23415	13	862	
23282	53650	A	23416	1	11342	MATRWFFYYGHPPRDARVPRIV AEAKEKNLTPGKIEVDVTIEAQ IRQEFDLAERDTGGFVKFRITK KKLQEFFLGEEEEQVPHVSPVE LGAKPTAFNAFIANAVGKTLAV QHASKLAPPEMTVTHERFYG NYAVWITDVPDRNHRJIEVHVI REISGRTSEYVNNLLAQPTPFK VFDWLTETQAKEFVRRLNNTQ GVISVYNKLEDGIPVKVAVKAT EPTNKEKLEAASTKLKAMGAV ATDAYEFHTDLNENE
23283	53651	A	23417	7597	7883	LSSLAWVWQWNHRISVLFHNS SVRTNLVPQFNQLVITESNSCPE FFNQTSAFFKT*VESGCM/CLQD *GIEWFRLRLDVYNSRLVFLTG ATDYCTG
23284	53652	A	23418	3	1573	
23285	53653	A	23419	6692	6793	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIPQS
23286	53654	A	23420	1	17727	
23287	53655	A	23421	6687	6785	VNTGNRTWWEPLFRK*KKTQR EDTTEKKTGR
23288	53656	A	23422	1	2856	
23289	53657	A	23423	1	7194	

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23290	53658	A	23424	7460	7561	GASVAPSIGS*STGNAIPSCFLQ QNVIVPIQPS
23291	53659	A	23425	1468	1857	
23292	53660	A	23426	1	1985	MEPVGIDIIAISWIGAPEYDPNV KRAINAKVEATQKTLQREQEIQ QRVAEANMEREQAKGVADAIR LRGEALTENPNVMQLEAINKW NGLVPFITSSPGMGKSAIVRQIA EDFGKLIDHRLSTSAPEDLSGL PRFKENGRAEFAPFDELFPLEG DAVPEGFNGWLLFLDEFNSAR KEIQAAAYKLVLDGMTGQKKL HPYVAIVCAGNKATDRAITNNL STAMQSRLIHLEMETDFDVFME DVAIPNKWDERVIAFLNANPNK LNDFFPDHQEKTFCCSR TWEFV NKIVSILPPGPINSEMTLLLAGTI TSGVATSFVQFTQVYSNMVSL NEILDNPCKARMPEDNLLWA VVTSLINNTDEDNHSKIFDYVE RMPFTFKVLVYRSRKTDSMT DAQLTREYDRCAKAFMGKTA AFFGSLCCLKFRWVKDGCOT AQTDGEHLEWNPWFESLLPE SRVTVMHLEWHVGLLHVS MGSRDPEVWNYACDIYINNQLI QDGYSGFIGIENCWKDPKYAGW AEEQIYHDLMSKHPRPPKASGA FGTSGGDMKPKSTKASLKLGS GSLPGVLPKMEEVITQFLKPV VPWQVLLERFFNDLQETYYSW QRPNRRYPDMYLPSSMDDDCR LEHLAYFL*NEADLTGLLVLK* TDDQS VSGQNLLQSDEQLQIY
23293	53661	A	23427	2365	2784	
23294	53662	A	23428	5789	5980	DQNMRFDFNTFETYYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWLQILKKHTIHFIMPLQL
23295	53663	A	23429	1	6819	
23296	53664	A	23430	376	2052	SKVCGNDGFADDLKHLILFTGA QSGEDIVPFQLEDGHSLSGEVVL LHGGSGVESGQR/CGRTSAGSC Y*SPGKICCCNLLVTKTEGFFAP VPIQLENTNQVTNCSDNW
23297	53665	A	23431	2	2189	
23298	53666	A	23432	2	1583	
23299	53667	A	23433	2142	2242	GASVAPSIGS*STGNAIPSCFLQ QNVIVPIQPS
23300	53668	A	23434	3	1188	
23301	53669	A	23435	470	862	
23302	53670	A	23436	1	1352	

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23303	53671	A	23437	1837	1955	SKCSIGLYQRYPSYNGC*NSGCI CRVY*CCREHRGYVRN
23304	53672	A	23438	1447	1565	SKCSIGLYQMYPYNSGC*NSGC ICRVY*CCREHRGYVRN
23305	53673	A	23439	773	823	
23306	53674	A	23440	3	1529	
23307	53675	A	23441	1	1794	
23308	53676	A	23442	236	427	DQNMRFDNFTFETYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWLQILKKHTIHFIMPLQL
23309	53677	A	23443	8510	8611	GASVAPSIGS*STGNAIPSCLFQ QNVVPIPOS
23310	53678	A	23444	516	669	ATSELKRKASLGLMEPDVSRK* ARCSSLPSSSIGDGRYISGYRL GRCHE
23311	53679	A	23445	410	593	FLNLIQPOGKRKLLLRKRSLLP KN*CQHSKQHKLSISSVVILNIT NS*PNKVKLMPILAM
23312	53680	B	23446	1	2286	
23313	53681	A	23447	1418	1723	CNTNIIFNCHFPTKLGCKICKAMK VVSPLIHNSIVILLNQITIDFFSTL AQICTFICLTYSKQTTRIASFQ KVIEEFLSLAPIEKVELKEHS*YI SISEKV
23314	53682	B	23448	1	6167	
23315	53683	A	23449	1	3199	
23316	53684	A	23450	1	5733	
23317	53685	A	23451	709	1099	
23318	53686	A	23452	5039	5230	DQNMRFDNFTFETYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWLQILKKHTIHFIMPLQL
23319	53687	A	23453	664	993	
23320	53688	A	23454	1	19859	MASIDSIACVNPRQVRKFVEHC IRSGLVPFITSSPGMGKSAIVRQI AEDFGLKLIDHRLSTSAPEDLSG LPRFKENGRAEFAPDFELFPLEG DAVPEGFNGWLLFLDEFNSAR KEIQAAAYKLVLDGMTGQKKL HPYVAIVCAGNKATDRAITNNL STAMQSRLLIHEMETDFDFVME DVAIPNKWDERVIAFLNANPNK LNDFEPDHQEKTFCSSRTWEFV NKIVSILPPGPINSEMTLLAGTI TSGVATSFV
23321	53689	B	23455	74	240	
23322	53690	A	23456	143	384	
23323	53691	A	23457	1	3267	

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23324	53692	A	23458	2	550	KRSSEHIQRIDRDVSGTLRKHF FRDRYGTQKRELLHILAYEY NPEVGYCRDLSHIALFLLYLP EEDAFWALVQLLASERHSLQG FHSPNGGTVQGLQDQOEHVVA TSQPKTMGHQDKKDLGGQCSP LGCLIRILIDGSLGLTLRLWDV YLVEGEQAFMPITRIAFKVQK RLTKTSR
23325	53693	A	23459	72	630	
23326	53694	A	23460	1	2835	MDALMLALGALMLALGLGDP KSAQVSDPDGAEPGPGRATGT DPLVQIHWKLGISEALSIPGGRL YRDLWSLTPVCLHIPGIAHHGP FTLGRMDVVEVAGSWWAQER EDIIMKYEKGHRAGLPEDKGPK SFGSYNNNVDLGIVHETELPP LTAREVKQIRREISRKSKWVKM LGEWDTYKNSRKLIDRAYQGIP MNIRGPMWSVLLNIEEIKLKNP GRYQVRSARAQPTGQAVSQAQ VSSWRERQDHPGELGVKI

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23327	53695	A	23461	1	832	MGWRARWLMPVISALWEAED PIPELTRLLQQSQDPLLMLGLFP TNPKEKTQEPPGQSRAPVLT VSKFKVLGALLHLGNIQFAASE DEAQPQCPMDDAKCEGQGVG WAGPVRKASLEQLQLVLSHTT PHYIRCIKPNSSQQAQTFLQEE AGAGRRRQRRRQKQRRRRRQ LGGGGDGGNGSVGDDGATRGS RGCALEKECVATPRRGLLFSRP HKLAFVGGSVTSVGPKPAP MDVVVEVAGSWWAQEREDIM KYEKGHRAGLPEDKGPKPFRS YNNNVDDLGLIVQDFADFGTTIK QDFRLLGQTSVDRLLQLSQGQ AVKGNQLLPVSLVKRKTTLAP NTQTASPRALADSLMQLARQV SRLESGHFYDAHNPFLPPSMS KQAKKTGVPSEGLCRPGGEGQ SAVARLTGEKKNHPGAQYANR LSPRVGRFINAAGTTGFTGKR AVSATQLIGLQILLGEVLQKV LTASYPAQSSVPLTSGPVRQIM KEKGKRSEHIQRIDRDISGTLR KHMFFRDRYGTQRELLHILLA YEEYNPEVGYCMDLSHIALFL LYLPEEDAFWALVQLLASERHS LQAARAPAAIGAHARADQAQIS LGLTLRLWDVYLVEGEQALMP ITRIAFKVQKRLTKTSRCGPW ARFCNRFDVTWARDEDTVLKH LRASMKKLTRKQDGLPPPAKPE
23328	53696	A	23462	3	497	SSECLTMAWIPLLPLLLICTVS VASVELTQPASVSVSPGQTASIT CSGDVLAKKKYARWFQKPG QAPVLVIYKDSERPSGIPERFSG SSSGTTVTLTISGAQVEADY YCYSAADNNGWVFGGGVTKLT VLSQPKAAPSVTLFPPSSEELQ ANKAHTGVSQ
23329	53697	A	23463	1	393	FRSGSELVKAGLRAFFENAED LEKTSNKLKLGKFTHSRTQIKG VSQINITYTTVALLPILTSIFEHV TQHFGMDLLGLDGVQISCYHIL CSLSYSLGTGKNYVVEILGMPDT VEDMCPDIPQLECLMKEIN
23330	53698	A	23464	319	508	
23331	53699	C	23465	94	222	
23332	53700	A	23466	1	636	
23333	53701	A	23467	1	483	
23334	53702	A	23468	1	1797	

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23335	53703	A	23469	1	4275	
23336	53704	A	23470	1	1848	
23337	53705	A	23471	122	14928	ARSWRRRWRTRTKRRRRKSAA AVSARRAAAGGSRGAGGWGT ADASGAMAEAGGEGEDEIQFL RTEDEVVLQCIATIHKEQRKFC LAEEGLGNRLCFLEPTSEAKYIP PDLVCNCFVLEQSLSVRALQEM LANTGENGEGEAAQGGGHRRL LYGHAVLLRHSFSGMYLTCLTT SRSQTDKLAFDVGLREHATGE ACWWTIHPASKQRSEGEKVRIG DDLILSVSSERYLHLSVSNNGNI QVDASFMTLWNVHPTC
23338	53706	A	23472	134	1063	RPPGLTRSPSPAPARSPTRRQS TRRRSGATTSCQRLWATWNG CD/VCLNQSLREIPTDDKGFTAI HFAAQWGKLACQLVVEEYKF PVDLLTNSQTPLHLVIHRDNT TVALPCIYYLLEKGADLNAQTC NGSTPLHLAARDGLLDCVKVL VQSGANVHAQDAMGYKPIDCF KIWNHRACARFLKDAMWKKD KKDFAREMTKMKMFKSQTL MEHNYLIEYQKEHKILREAAIR KWLHGKLLHPGHSLSVNTKQAR ATALSKTPEQRESQRSRSHPSV DARLQCIPQTEMPKPIYRKPTV KRPHNVEC
23339	53707	A	23473	1	1280	MAGLGFVGHGAPGLLLLLLV LPPRALPEGPLVFVLFVRHGD RAPLASYPMDPHKEVASTLWP RGLGQLTTEGVRQLELGRFLR SRYEAFLSPEYRREEVYIRSTDF DRTLESAQANLAGLFPEAAPGS PEARWRPIPVHTVPV AEDKLLR FPMRSCPRYHELLEATEAAEY QEALGWTGFLSRLNFTGLSL VGEPLRRAWKVLDTLMCQQA HGLPLPAWASPDVLRTLAQISA LDIGAHSVGPRAAEKAQLTGGI LLNAILANFSRVQRLGLPLKMV MYSAHDSTLLALQGALGLYDG HTTPPYAACLGFEFRKHLGNPAK DGGNVTVSLFYRNDSAHPLPL SLPGCPAPICPLGRFYQLTAPAR PPAHGVTVCHGPYEAIPAPVV PLLAGAVAVLVALSLGLGLLA WRPGCLRALGGPV

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23340	53708	A	23474	133	672	AVGWESGKWDSSGRGQGGGQE QMWSCQSDMLYPPDQVGA WG LPGPTGPKGDAGSRGPMGMRG PPGECPCQCCPTAPLAIPSTRWAL PCSWPPGPPGPPGPPAPVGPPHA VGSMSVSPGIPAGGGGGGVAI STVPATIKTRRQEVSPELPRP/PG PAPPPGPDVRPWL.LRPPGPMGK LSPGQG
23341	53709	A	23475	135	677	AVGWESGKWDSSGWGQGGGQE QMWSCQSDMLYPPDQVGA WG LPGPTGPKGDAGSRGPMGMRG PPGECPCQCCPTAPLAIPSTRWAL PCSGPPGPPGPPGPPAPVGPPHA VGSMSVSPGIPAGGGGGGVAI STVPATKKTRRQEVSPELPRP/P GPAPPPGPDVRPWL.LRPPGPMG KLSPGQG
23342	53710	A	23476	220	745	TVIQRITGLHSVGPDPQQLRE AKLGTMVRLVLLPTPRRTTEVR TGPEREISMVLEAILGSLLETAC DHRQTTPSSKQA/GSSRLREGT SAGQPCL/LRLRLGPRAGGRRRC CRDIERSSSSVCGRKCKRKKR KRGMCQSRHKHGCRRPQEGPR CNDGRALCSPRPQTTPGPLSTA
23343	53711	A	23477	1	2433	
23344	53712	A	23478	3	803	FPGRFRVRAVAGGSHCLFNS CCCCTSASLPARERHEWPGPAA AAAAAAAAAARRSQTQREGLFA GWGGGFAMSDDDSRASTSSSS SSSNQTEKETNTPKKKESKVS MSKNSKLLSPRAKGIGKELVAD ITLDPPPNCSAGPKGDNIYEW STILGPPGSVYEGGVFFLDITFTP EYPFKPPKVTFRTRIYHCNINSQ GVICLDILKDNWSPALTISKVL LSICSLTDCNPADPLVGSIAATQ YMTNRAEHDRMARQWTKRYA T

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23345	53713	A	23479	372	1839	GEAGGTEAEPENGAGGPRVPG WWGWSSTSSPRGCWDSGRSAA AIMDFLWDKRTGLAARKMPHP RRYHSSERGSRSYCEHYRS/R K/HKQRRSRWSSSSDRTRRRR REDSYHVRRCRSTRFSRSSQH SSRKAKSVEDDTEGHLIYHVGD WLQERYEIVSTLKGKGTGFRVV QCVDRHRRGARVALKIKNVE KYKEAARLEIKVLEKINEKDPG KNLCVQMFDFDYHGHMCISL ELGLSTDFLKDNNHLPYPIH QVHHMASQLCQAVKFLHDNK LTHIDLKPNILFVNSDYELTY NLEKKRHERSVKSTAVRVGDF GSATFDHEHHSTIVSTRHYRAP EVILELGSWQPCDVWSIGCIIFE YYVGFTLFQTHDNRQHLATME RILGPIPSRMIRKTRKQKYFYRG RLDWDENTSAGRYVRENCKPL RQYLTSEAEEDHQLFDLIESML EYEPAQRLTLGEALQHPFFSRL WAEPNKLWDSSQDISP
23346	53714	A	23480	28	941	QSARPSLKRARSQRGRPLPSRA LVFLFLFFFFFFNFLPIHTQPSAH KDMITTNAGPLHPYGPQHLRLD NFVPNDRPTWAYTGLGLFSVT GGLRSWTTWAVVQGRAAGCPI GDFGRATVPCCWVLQCVGFH LVIEGLVPFSNYERPCFGDQSL NLKLWKEYGQGETARLHPGG DKFHSVALGTITSFA\WGEPSL WVVI\FLQLHPLARFILQLVVS VGQIYG\DVFYFLKEHPRRDS KHGKPGFTPLLLPGFSFVFHEM PLWLVPAPGSPCLDA\VKAPS THAPEHAWNAKGQPKPKSKKN

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23347	53715	A	23481	1	1386	MWRNLKLPDRLLNGFDQNADS DMDNEVQAEVVTGDDEELIGN WSKGHSCYILAKRLAAFFPCPK DLWKFELEDDDLGYLAEEISS EAFKSVSYEKAAHWNPLESTC RHASLALAVVLQRRDWENP/G VTQLNRLAAHPPFASWNRNSEE ARTDRPSQQLRSLNGEWRLMR YFLLTHLCETLVKVKDAEDQL GARVCVLERQIFDLGYQWAPI LANFVHIHIVILGLFGTIQYRPRY ITGILSFPKHQESLSLKFTCLTEA ERDTDALLHLENACRESTATQR IQGFLLKDKKRKKQPPQQKQ QQWAKVQLGPWLQRVQAPSL GSFHGVLSLRVHRSKELRFRNC CLDFRCMEMPGCPGRGVLQA QNPRGEPLLGQCRREMCSSP YIVPTGALPSGAVRRRPPSSRPH NGRPTDSLHCVPKAAADTQHQ PLKAARRAAVPCATGSSELPK
23348	53716	A	23482	3	732	SPLTPTATSGNPSKASSPGGLGS LVSTASSLPAGEKNSPRTGPGP RRAGAGIPNSGPDVTEGPPYNL CGRQGRWGGLIISLASEMKLQT LQTSVTTAKATLLELFVPLGGL VASLASEVRLQIFPRGGHLQSA KCGLLHLFSLPTSRSGRRKANR PMAVTVLLVLRDCADLLAVK AVIHICYQDQWPLRGSSRPANTP PPKASVSRPPGHRGVRRGSPL LQVGARRVGAEPALLELQSPS
23349	53717	A	23483	1	234	
23350	53718	A	23484	1	256	MLNLQGEWLELEDAQKAYI MGLLDRLEVVSRRRLKVARA VLYAQDGEKFCPKRDCTNNS/ RY/NSI*MIQMMRFGTLELMRL
23351	53719	A	23485	1	3333	
23352	53720	A	23486	1	2661	
23353	53721	A	23488	3	433	

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23354	53722	A	23489	3	990	EKMNTADQARVGPADDGPAPS GEEEGEGGGEAGGKEPAADAA PGPSAAFRLMVTRREPAVKLQ YAVSGLEPLAWSEDRVSVST ARSAIVLELICDVHNPQDLVIH RTSVAPLNSCLKVGSKTEVA ECKEKFAASKDPTVSQTFMLDR VFNPEGKALPPMRGFKYTSWSP MGCDANGRCLLAALTMDNRL TIQANLNLRLQWVQLVDLTIYIG ERLYETSYRLSKNEAPEGNLGD FAEFQRRHSMQTPVRMEWSGI CTTQQVKHNNESRDVGSVLLA VLFENGNIADVWQFLPFVKGES ISSCNTIESGITSPVLFVWEYE HNNRKMSSGLIVGSFAGPIKILPV NLKAVKGYFTLRQPVILWKEM DQLPVHSIKCVPLYHPYQKCS SLVVAARGSYVFWRLLLISKAG LNLHNSHVTGLHSLPIVSMAD KQNGTVYTCSDDGKVRQVIPIF TDVALKFEHQLIKLSDVFGSVR THGIAVKPCGAYLAHTTEGMIN QLHPVNKNYQVQFVTLKTFEE AAAQLLESSVQNLFKQVDLIDL VRWKILDKHIPQFLQEALEKK IESSGVTYFWRFKLLRLIYQS MQKTPSEALWKPTHEDESKILLV DSPGMGNADDEQEEGTSSKQ VVKQGLQERSKEGDVEEPTDID SLPTTGADAGGREPMGRNSW GNSKGIKIRSCWEMRLTREHMK
23355	53723	A	23490	1218	1446	RCTDSQVRSPTPLHLAAQACSL ETTVCLLCSKADYTLSEKRGW MPIHFAAFYDNCVCHIALCRKDP SLEAEATAE
23356	53724	A	23491	2	632	NMAKTYDYLFLKLLIGDSGVG KTCVLVFRFSEDAFNSTFTITIRI DFKIRTIELDGKRIKLQIWDTAG QERFRTITTAYYRGAMGIMLVY DITNEKSFNIRNWRNTEEHAS ADVEKMILGNKCDVNDKRQVS KGS/GENKLALDYGIKFMETSA KANINVENAFFTLARDIKAKMD KKLDGNSPIQGSNQGVKITPDQ QKRSSFFRCVLL

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23357	53725	A	23492	1	1018	MVIFYHVQAGLELLTSGPHCP DSQAADKAESATLLSRARLGA YCACASLERRWPHFSGREC MAKTYDYLKLLMIGDSGVGK TCVLFRFSEDAFNSTFISTIGIDF KIRTIELDGKRIKLIQWDTAGQ ERFRTDHNRPYRGAMGIML VYDITNEKSPDNIRNWIARNIE EHASADVEKIMILGNKCDVND KRQVSKERGEKLALDYGIKFM ETSAKANINVENAFTLARDIK AKMDKLLGPAPHGTLGKGE EFAGVAGASAGSASGLTLPKQ TRPCPVNPQASREHTAFSIPKLG QKDNMEGNSPQGSNQGVKITP DQQRSSFFRCVLL
23358	53726	A	23493	1	130	
23359	53727	A	23494	1	1392	
23360	53728	A	23495	445	649	YPSLTNSKLLVHHFMELCWD KCVEKPGIALDSRTENCLSC WDRFIDTYLTAITSRFAQIVQKG GQ
23361	53729	A	23496	210	397	VITYAPGKKAQRTQK/APKTKTK KPHLSPCPSP/WRSRSCQPMQQS WSGAQVHIPQPPHTTCITWA
23362	53730	A	23497	55	286	QASSSPPISSVTCRKALPPGQTK KGLVASGDPEPVSMTSSPTPS LAPEHSSRASLEPSSSA*PSLAT* SRAGGSQA
23363	53731	A	23498	780	1022	QAMHGRSPGVTVRASGLRNEG DGPLGSVPTQARATGAPGHSAT PSPA WRA WSSSSKAS/WLPDA AGPPTPPWSGPSPTSW
23364	53732	A	23499	1	782	
23365	53733	A	23500	275	688	

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23366	53734	A	23501	1166	2271	LRCILTLISRWC*VSTVANLPP GISKWGANWQRCMEKE*CWSP AVTWICITCAQRSQ/IGDSSPYPG ATSFNEYVKANLTWRGPVEQH PLVNYLDHERGTLNPTARHYL PVLYVLRILWARTPLPIGRRTT VSKVKMKRILRAMRQKQQVL PLLVLGLDELMSAPSIPA ARMAQLDSRECRKLLNQAMA CRTSLEVEHLLAQFRMTQQDA PLVTAEITLES DWSKEEV LK GMTDNL LLAGRCRYPRKLEAD LWAREAVFSTGLGFSFAIPHSK SEHIEQSTISVARLQAPVRWGD DEAQFIIMLTNLKHAAGDQHM RIFSRRLARRIMHEEFERNALVNA ASADAIASLLNMNWTVKEHHE
23367	53735	A	23502	1	2604	
23368	53736	A	23503	306	468	TRHCDRRQPRRGHRRAGT/CNQ I*KGCCCVRTKQLSPSLVSNF CPCSSFLKNS
23369	53737	A	23504	102	509	AAQQGTMARSLI.LPQILL.LSL ALETAGEEAQGDKIIDGAPCAR GSHPWQVALLSGNQLHCGGVL VNERWVLTAAHCKMNEYTVH LGS DTL E/ADRKAQRIKPSKSF RHPGYFTQTHVNDLMLVKLNS QARLSSMVK
23370	53738	A	23505	1	1032	MMQATVGFEDGDAATSQVSPS VNKVHSSYFLDFFEEYIVIAFKI LRRGPDISCQIINGEDCSPHSQP WQAALVMENE/LFCSGVLVHP QWVLSAAPVSRKYNRPLLAND LMLIKLDESVS ESDTIRISIASQ CPTAGNSCLVSGWGLLANDPT SRLLPPLPCRNPVQPLLPPPEKP RTAPDTLGSSPVKSRGTSSGSS FLLPAPSPFPFRPHHGTPTSCG QDQDVPALAGGSLGSPAGEAL PRLAAPERLSRHGKIPSPAPAD LTAILALETAGEEVFPPLTSCA WMSSSSPPGLIEGLQGLTGKHFH AVRWHPRLQEKRLQSVPSPSDR IPGARRPAAR
23371	53739	A	23506	303	393	

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23372	53740	A	23507	391	1170	GSFFFFFYFAYSPMPKNSKVV KRELD D V T E S V K D L L S N E D A A D D A F K T S E L I V D G Q E E K D T D V E G K \ S E V E D E R P A W N S K L Q Y I L A Q V G F S V G L G N V W R F P Y L C Q K N G G V V E P E C E Q S S A T T Y Y W Y R E A L N I S S S I S E S G L N W K M T I C L L A A W V M V C L A M I K G I Q S S G K V N T Y D R V T M S A T V L A L Q E Q W Q T F S P I R S G N G H L T G S G A Q R T P C R I R R G G S Q L R V C D G G K Q Q W W T V S Q S S A R A I T N T D Q K S V Q L Q D L I E
23373	53741	A	23508	45	546	E G G G S R S L W F R E L I G Q P V Q S F I E P V A A G G A V A L N V Q / R S C G V V S A A P A C L * S R P H S W R W G G P A C W R T P G G / L A S R S S S A S I L M S S S R A S F T R S L S L L S T H K D Q G L V C S G S S G A T G A G S C L W P P T S H T V K L M F L Y S T V S T L K P M V G M V V T I S P S L S L * R I V V F P A A S R P T / Y E D A H F F F C Q K G P * R G S W S S L Q H P G P P
23374	53742	A	23509	1367	2142	V R R P Q G C L G K R S L S R V C A L V P W G I W P / W S L A V G P Q Y S S L G S Q P I L C A S I P G L V P K Q L R F C R N Y V E I M P S V A E G I K I G I E C Q H Q F R G R R W N C T T V H D S L A I F G P V L D K G Y F G Y L E T T I V P S D S V V S T K A E T P D K G V C G R E L G F R G G W L P E L Q S L D E I S M G W A L C S R L Q I K A T R E S A F V H A I A S A G V A F A V T R S C A E G T A A I C G C S S R H Q G S P G K G W K W G G C S E D I E F G G M V S R E F A D A R E N R P D A R S A M N R H N N E A G R Q V G S P P A R V L G K K E P P Q Q G V C P G S L G H M A R S L A V G P Q Y S S L G S Q P I L C A S I P G L V P K Q L R F C R N Y V E I M P S V A E G I K I G I E C Q H Q F R G R R W N C T T V H D S L A I F G P V L D K G Y F G Y L E T T I V P S D S V V S T K A E T P D K G V C G R E L G F R G G W L P E L Q S L D E I S M G W A L C S R L Q I K A T R E S A F V H A I A S A G V A F A V T R S C A E G T A A I C G C S S R H Q G S P G K G W K W G G C S E D I E F G G M V S R E F A D A R E N R P D A R S A M N R H N N E A G R Q

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23375	53743	A	23510	2094	2619	ASPASPAPCSGIPRT*SPYPSPSR TQAPRARGPAIHHPGPRGCT ALPRQGPPTPGSARAPPIPAHR APTSPTLNFLCLASSRQSMPPAPR PPPVPATNPVTPGCGRPPPTLGC RNPQTLRPPGLPSPALLRRPLP PPARVGMPPHPQPLPTTPACWR PVDWARAEGAGRAVC
23376	53744	A	23511	3050	3317	PARTSPASGPP**DLISALWTPS QPRAPTRQSLNSLSSAPSSSTIG PSPSPAPGPAPPLPWLPSPSSSL PRLSQVSRRPHSHLHPQ
23377	53745	A	23512	862	2954	AEHTLLVCFNLSTLTSTHVES FGQLRGSQIGHPRRNKMPYA WSIPQDPLKPERDPGGPLGVS LSLPVNQYGESEPMGDDDDYD EYSKELNQYRRSKDSRGRGLSR GRGRGSRGRGKGMGRGRGRG GSRGGMNKGGMNDDDEFYDE DMGDGGGGSYRSDHDKPHQ QSDKKGKVICKYFVEGRCTWL YHTTGNCGINGDDCMFSDHPLTE ETRELLDKVEMTGSSVFDYIHP GDHSEVLEQLGLRTPTPGPPTPP SVSSSSSSSSSLADTPEIEASLTK VPPSSLVQERSFFVRMKSTLTK RGLHVKASGYKVIHVTGRLRA HALGLVALGHTLPPAPLAELPL HGHMIVFRLSLGLTILACESRVS DHMDLGPSELVGRSCYQFVHG QDATRIRQSHVDCEHLHPPSL PTTPQTRASHSLVPGSPSSGLPT VPPAAPTAAGTPFISIGRAARRLS DASGLLDKGQVMTGYRRLQ RAGGFVWLQSVATVAGSGKSP GEHHIVLWVSHVLSQAEGGQTP LDAFQLPASVACEEASSPGPEPT EPEPTEGKQAAPAENEAPQTQ GKRIKVEPGPRETKGSEDSGDE DPSSHAPATPRPEFTSVIRAGVLK QDPVRPWGLAPPDPPPTLLHA GFLPPVVRGLCTPGTIRYGAEL GLVYPHLQRLGPGPALPEAFYP PLGLPYPGPATRLPRKGD

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23378	53746	A	23513	1319	2211	GSKVYGSFLFHINHGPNFNMVEVL VDSWPEYQMVIRPQ/ETVRGE EKVQGNLDTFHHPTQEMTDDDM DSYTNVYRVFSKDPQKSQEV KNSEIHNWKQLQIQGFQESLG EGIRAAAFSNSVKVEHSRALLF VTEDILKLYATNKSILGSAET GHPDDELESETPNFKYAQLNVS YSGLVNDNWKLGMMNKRSLRYI KRCLGALPAACMLGPEGVPVS WVTMDPSCIEGMGSVEKYRR RGNGTRLIMRCMKYLCQKNIPF YGSVLEENQGVIRKTSALGFLE ASCQWHQWNCYPQNLVPL
23379	53747	A	23514	234	858	SVPLQESPLPPPTHQADC*SPC GAQGGWVTLAVASASS*AHTA SPLRSPQAQGRASPAPPQIHL TTPSFSSQGT/SHGGLGSTPGA DDPNTSSS/PPPGGSTPRWSAGD SAHSGGEVDGWS*SFP*SVPSY GT*SFP*CPWPSSGQRSFHGIASG WEPDGPIDGSSRWEPCKGPQES ETGVEGRQHFPKQLCLGSCRA VASPRVARA
23380	53748	A	23515	1	3582	
23381	53749	A	23516	628	4254	RLPESRAHDVAGADERPWPVH AGIFKSPAAGAAMSPAAAAAG AGERRRPIASVRDGRGRGCGGP AGAAALLGLSLVGLLLYLVPA AALAWLAVGTAAWWGLSRE PRGSRPLSSFVQKARHRTLFA SPPAKSTANGNLEPRTLLEG DPAELLMGSYLGKPGPPQAP APEGQDLRNRPGRRPPARPAPR STPPSPPTHRVHHFYPSLPTLL RPSGRPSPRDRTLPRFVITPR RRYPHQTYQYSCPGVL
23382	53750	A	23517	1	392	KVHMNGLRYALYIMGPALTRG CHQVLMIMLCCVEIERILT/VMM KEAYFGEVDIMDDLPTGNISA NVTGRLYKCGVINHTVDLRRM KT/EKWQNNLLPSRQGFIVLTT SAGIMDHEEARRKHTGGKILGF
23383	53751	A	23518	227	352	

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23384	53752	A	23519	3	507	SFRAATMVRMNVLDALKSIN NAEKGKQVLRPCSKVIVRF LTVMMKHGYYGEFEIIDDH RAGKIVVNLTGRLNKGVGQWRDLG YCNLCPLPGSSDSSASASLVAEIT ICGVISPRFDVQLKDLEK WQNN LLPSRQFGFIVI.TTSAGIMDHEE ARRKHTGGKILGFFF
23385	53753	A	23520	279	653	ARAQRFSSQVDVYLIQSVIFCR LALAEFEIIDDQSLGKLL*TLT GRLKQ/CLGVISPRFDVQLKRP WKKWHEIIL/PSNPAKFGFIVLT TSAGLHG/HHEGRQDRKHTGG KILGILLYRDVHIIFT
23386	53754	A	23521	1	392	KVHMNGRLRYALYIMGPALTRG CHQVLIIMLCCEVIERILT/MM KEAYFGEVDIMDDLPT*GNISA NVTGRLYKCGVINHTVDL/PPY ENGK WQNNLLPSRQFGFIVLTT SAGIMDHEEARRKHTGGKILGF
23387	53755	A	23522	108	371	LSYIGKFEIIDDHRAKGKIVVNL TGGNLKCGVISLRFDVQLKDLEK WQNNLLPSQFGFIALTTTSAGI MDHKEAR*KHTAGKILEFFF
23388	53756	A	23523	252	378	
23389	53757	A	23524	3	518	HASAFRAATMVRMNVLDAL KSINNAEKGKQVLRPCSKVI VRFLTVMMKHGYIGEFEIIDDH RAGKIVVNLTGRLNKGVGQWR DLGYCNLCPLPGSSDSSASASLV AEITCGVISPRFDVQLKDLEK WQNNLLPSRQFGFIVLTTTSAGI MDHEEARRKHTGGKILGFFF
23390	53758	A	23525	279	709	ARAQRFSSQVDVYLIQSVIFCR LALAEF*NPLMTHQSLGKFVNN PHRAGLNKCGVISPQILTVQLQ RPWKKWAGLILLPSRQVLGFV VLTTSAGIMDHEEARPKTPRR GKSWGFFFLGDVNNYILFYKLLKC LMDSGASTWSF
23391	53759	A	23526	207	564	SMAKEAISINRSLWAGPAKISSP AETVIESLISLFQKYVVGKGGYN CTLKTEFLSFMNAELAAFTKN QKDPGVHLHRMMKKLGTNNDDG QLDFSEFLNLIGGLAMACHDSF LKAVPQSQRRT

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23392	53760	A	23527	1	407	FREKQSQELSQYGAMGAGQSF NSQFLQHGGPRGPSVPAGMNP TGIGGVMGPGSLPLAMNPTRA AGMTPLYAGORLPQHGYPGPP QAQP/PAPTGGQENLL*GVSR AVSARSLGPPFRAIPVSHLAGNP TPPMNP
23393	53761	A	23528	3	315	
23394	53762	A	23529	1	763	DYEETIDPTCSWKVPVVKPDM HIKEEPDGPALKRCRTVSPA LMPSVMEMIAALGPGAAPFAFL QPSPVPAPSDYPGQGSFLGPGT FPESFPPTPTPTLAEFTPGPPPI CYQSDIPSSLLTSEKST/SLPLQA RR/PPAGHLDPHTNPGTGLHTS NLGAPPGPQLHHSNPPASRSQ LGQASLGPTGELAFSPATGVMG PPMSGAGEAPEALDLLPELT NPDELLSYLGPPDLPTNNDDL LSLFENN
23395	53763	A	23530	1	2901	MERRGPGAATARGRARPGGGP SVGLLATGSSLNPSFHGVARIVP GFIRIARPRDGSFAYESVPWQQS ATQPAGSLSVVTTVWGVGNAT QSQVLGNPMGPAGSPGSSMM PGVAGGSSALTSPQCLGQQAFA EGGANKGYVQQGVYSRGGYP GAPGFTTGYAGPGGLGLPSH AARPSTDFTAQAAAAVAAAA ATATATATATVAALQEQSQSE LSQYGAMGAGQSFNSQFLQHG GPRGPSVPAGMNP TGIGGVM
23396	53764	A	23531	80	412	KPGNGACAGREWCDDGGGA NWRDPGLPVGDSGVWDRVLE LLGPRSPRPLDVGGPAAGTPGV LSR/HLPVDCGLGPEALLCSSAP AARRPSLCGGHGRVMRGFLRG CGFRP
23397	53765	A	23532	1	192	RPLDVGGPAAGTPGVLSR/HLP VDCGLGPEALLCSSAPAARRPS LCGGHGRVMRGFLRGCGFRP

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23398	53766	A	23533	1	2094	RPLDVGPPAAGTPGVLSRPCPS TAALAPKPFCAAPRPQPDAPAC AGATGGSCADFDGSGVDFVRRR SSGLWGPQPLFPVKNYTEMFQ DPVAFKDVAVNFTQEEWALLD ISQKNLYREVMLDTFWNLTSIG KKWKDQNIIEYEQNPRRNFRS VTEEKVNEIKEDSHCGETFTPV PDDRLNFQKKKASPEVKSCDSF VCGEVGLGNSSFNMNIRGDIGH KAYEYQYEGPKCKCQPKKA FRYRPSFRTOERDHTGEKPYAL LKNDGKKPLFYHSSIQRHMVV HSGDGPYKCKFCGKAFHWLSL YLIHERHTTGEKPYECKQCGKS FSYSATHRIHERTHIGEKPYECC ECGKAFHSPRSCHRHSHMGE KAYQCKECGKAFMCPRYVRRH ERTHSRKKLYECKQCGKALSSL TSFQTHIRIMHSGERPYECKTCG KGFYSAKSFQRHEKTHSGEKPY KCKQCGKAFTRSGSFRYHERTH TGEKPYECKQCGKAHERHTTG EKPYECKLYGKALSRLISFRRH MRMHTGERPHKCKICGKAFSS PSSFQRHERSHTGEKPYKCKQC GKAFTCFHFQYHERHTTGEK PDGCKQCGKAFSAKYIRIHGR THTGEKPYECKQCGKAFHWVS SFHRHERTHAGEKPYECKHCG KAFTCSIYIRIHERIHTGEKPYQ CKECKGAFIRSSYCRKHERTHTI

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23399	53767	A	23534	48	1317	CGLMDELVHDI.TSALEQTSEQ NKLGEELWEEMALSPRQRRQL RKRGRKRKRSDFTHLAEHTCC YSEASESLDEATKDCREVAPV TNFSDSDDTMVAKRHPALNAI VKSKQHSWHESDSFTENAPCRP LRRRRKVKRYTSEVAASLQKK LKVSDWSYERGCGRFSAKKQR LSRWKENTPWTSSGHGLCESA ENRTFLSKTGRKERMECETDEQ KQGSDENMSECTSSVCSSDT GLFTNDEGRQGDDEQSDWFYE GECVPGFTVPNLLPKWAPDIHS EVERMDSGLDKFSDSTFLPSR PAQRGYHTRLNRLPGAARCL RKGRRLVGKETSINTLGTERTS HIISDPQKDFWLPASAGKRERN QFNPLSPLYSLDLADASHRRR SPAHC SARQANVHWGPCCSRDI KQEAETSGHSIFV
23400	53768	A	23535	225	403	
23401	53769	A	23536	1	403	REQEFHMAPGEVITVIRLIRS LEHRNFKPVVYHGVNLDQTV KEFIVFLKQDIPLRTNLPFPFRN YKYDALKKIHHQAHSKTNELVL SLEDDERLLLKEDSTLKAAGIA SETEIGIFREEDYRNYKANPISS
23402	53770	A	23537	2	239	
23403	53771	A	23538	2	214	
23404	53772	A	23539	1	1341	
23405	53773	A	23540	1	1677	
23406	53774	A	23541	1010	1509	
23407	53775	A	23542	1	6355	
23408	53776	A	23543	223	10504	VKMPIGSKERPTFFEIFKTRCNK ADLGPISLWFEELSSEAPPYNS EPAEESSEHKNNNYEPNLFKTPQ RKPSYNQLASTPIIFKEQGLTLP LYQSPVKELDKFKLDLGRNVP NSRHKSLRTVTKMDQADDVS CPLLNSCLSESPPVVLQCTHVT QRDKSVVCGSLFHTPKFVKGR QTPKHIESLGAEVDPDMSWSS SLATPPTLSSTVLIVRNEEASET VFPHDTTANVKSYFSNHDESLK KNDRFIASVT
23409	53777	B	23544	137	709	
23410	53778	A	23545	1	1974	

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23411	53779	A	23546	207	1622	MACCLSDVEVKESKRINAEIEKA AAAETRRDARREL/RLLLLGT GESGKSTFIKQMRIHGAGYSE EDKRGFTKL VYQNIFTAMQAM IRAMETLAKILYKVRSTRANA L/LIRGGGTLEKVTTFGAFSYVQ LPLKDLFGRDPGIE/CAYERQP RSYQLSDSAKYVLTDVDRIATL GYLPTQQ/DVPAGSRVPTT/GHIE YPPDLNIIIFRMVDVGGQRSIE RRKWIHCFENVTSIMFLValse YDQVLVESDNENRMEESKALF RTIITYPW/QNSSVILFLNKKDL LEDKILYSHLVDFPRSSMGPO R/DAKAAREFILKMFVDLNPNS DKII/YTSHFTCPHRRRTSRFVF PAVKDTILQLNLEEKPLGSAP GPGRRDGDGTQDL PSTEPAAA RAGGAESGPGPLPAGGDFFFF IFLTNGFYFTVIRGCTSLPPYTSR TFSFVNGKGSFLALTYGSLFS KKKKKKKE
23412	53780	A	23547	1	401	KKVPGRLSEMSFSLNFTLPANT TSSPVTDCGPSLGLAAGIPLIV ATALLVALLFTLIHRRRSSIEAM EESDRPCEISEIDNPKISENPRR SPTHEKNTMGAQEAHIYVKTV AGSEEPVHDYRPTIEMERRR
23413	53781	A	23548	584	1071	PCRLPLHLILVEDLSFSLNFTLP ANTVSTAAPHQAT/PEKTSAEF TDCGPSLGLAAGIPLIVATALL VALLFTLIHRRRSSIEAMEESDR PCEISEIDNPKISENPRRSPTE KNTMGAQEAHIYVKTVAGSEE PVHDYRPTIEMERRRGLWWL VPRLSLE
23414	53782	A	23549	25	654	LFLQMKDTSPIIFVRKELTIRQC TKKVPGRLEMSFSLNFTLPAN TTSSPVTGGKETDCGPSLGLAA GIPLLVATALLVALLFTLIHRRR SSIEAMEESDRPCEISEIDNPKI SENPRRSPTEKNTMGAQEAHI YIVKTVTKSEEPVHDYRPTIE MERRRGLWWL VPRLSLGMMP TSNQGSHTQWHLGTGLKTQGF VLGEERCQAAS
23415	53783	A	23550	108	413	RRSGSMALWRAYQRAAAHP WKVQVLT/GLLGRKAALLAP CQ*LYLPQTQASWTEGHASCSL QEATSCPSAFCAN*NSKATKQLV ERRGLQEHRGRTLT.MVVS

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23416	53784	A	23551	1	146	
23417	53785	A	23552	2	442	GREARRSRSMALWRAYQRALA AHPWKVQVLTAVASGEEGSTA GMPMPVAIPADPGLLD*RTRFLL TPRSHFLPLCLLRMKLKSHKRS LMGLGDIISQQLVERRGLQEHQ RGRTLMTMSLGGCFVGPVVG WYKVLDRFIPGTTKVD
23418	53786	A	23553	3	675	RHSRFGAQGSMAWWRAYQRT LFALPWKIVQVLTAGSLMGLG DIISQQLVERRGLQEHQRGRTL E/TMVS LGCGFVGPVVGWYK VLDRFIPGTTKVDALKKMLLD QGGFAPSFLGCFLPLVGALNGL SAQDNWGQTTAGELG/RDYPD ALITNYLWPAVQLANFYLVP LHYRVAVVQCVAVIWNSYLS WKAHRALSLPHSIVSTLQVMQ LDPWNGSDNPPQKWA
23419	53787	A	23554	512	1227	LQGHLMGIMASRPLSRFWEW GKNIVCVGRNYADHVREMRSA /VWLSEPVFLPKPSTGVRAQRA RPILMPAYTRNLHHELEL/ALVI GQRCRAVPEVAAMDYVGGVY ALCL/DMTAWDVQASARKKG LAWDSGE/DAFTASCPVQVSL PKEKIPDPSQLKALGFKVNGEL RQEGETSSMIFSIPIIYSVSKIIT LEEGDILTGTPKGVGPVKEND EIEAGHTRAGQYDHLKVEKAQ
23420	53788	A	23555	192	436	RTSDHECFREGQICSVCLRERL NLNPEEACLLSQAPCMLFVLQY LNTVIPYEKKASPPSVDELQML \TNILFAMKEDNEKVP

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23421	53789	A	23556	94	1252	ARMEAPLVSLDEEFEDLRPSCS EDPEEKQCFCYGSSPHHLEDPSL SELENFSSEIISFKSMEDLVNEF DEKLNVCFRNYNAKTENLAPV KNQLQIQEEEEETLQDEEVWDA LTDNYIPSLSEDWRDPNIEALN GNCSDEIHEKEEEEFNEKSEN DSGINEEPLLTADQVIEIEEMMM QNSPDPEEEEEVLEEDGGETSS QADSVLLQEMQALQTFFNNNW SYEGLRHMSGSELTLLDQVEG AIRDFWEELVQQLARRDELEF EKEVKNSFFTVMIEVQNKQKIE QRELMKKRRKEKGLSLQSSRIE KGNQMP/LKRFSGEGISNQLQSG IRQTFGSSGTDKQYLNTVIPYEK KAYPPSVEDLQMLTNLFAFM KEDNEKVPYFA
23422	53790	A	23557	391	1169	GSFFFFFKYFAYSPMPKNSKV KRELDVDTESVKDLLSNEDA ADDAFKTSELIVDQGEKDTDV EGK/SEVEDERPAWNSKLQYL AQVGFVGLGNVWRFPYLCQK NGGVVEPECEQSSATTYYWYR EALNIISSISSEGLNWKMTICL LAAWVMVCLAMIKGIQSSGKV NTYDRVTMSATVLAHQEQWQT FSPIRSGNGHLTGSGAQRTPCRI RRGGSQRLVCDGGKQQWWTV SQSSARAITNTDQKSVQLQDLIE
23423	53791	A	23558	321	568	CLWCGASWPRRHSSPGRPADG HRGDRP/EGPDTQGPGRPEPSTE PAFNPQSSLDQGGGPAAPVD DDTRRGHGGVCGDGAGAEA
23424	53792	A	23559	510	690	LRSPQIRGVAAPPFLGSPVPFPGG FRVQGGMAGQPSAPPALQTD PYSKAHSVTPKSTPRVT
23425	53793	A	23560	25	480	
23426	53794	A	23561	84	292	VRAVQSLHFFPWR/ISCPSES TRSIHVDR/PRNSASLSAFP VSAGALINGEA/WVRMGQVPIP KAP

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23427	53795	A	23562	1138	1924	CRSSATWTPWTTTTCRCRDLTK TYSLEAYDNWFNCLSMVLVATE VCRLLSPGSAMLRSPTATQVV KKKHKTRMLEFFIDVARECFNI GNFNSMMAIISGMNLSVVARLK KTWSKVKTAKFDVLEHHMDPS SNFCNYRTALQGATQRSQMAN SSREKIVIPVFNLFVKDIYFLPQ NP\SNHLPNGHINFKKFWEISRQ IHEFMTWTQVECPFEKDKKIPIS YLLTAPHPTARKLSSPSFESE PENHMEKDSWKLTRLTTLNRA
23428	53796	A	23563	3	260	
23429	53797	A	23564	1	1386	
23430	53798	A	23565	137	611	MKVNLDGDSQNLACVFCRKH DCPNKYGEKKTEKWNLTVH YYCLLMSSGIWQRKEEGVY GFLIEDIRKEVNRASKLKCCVC KKNGAFIGCVAPCRKRSYHFP CGLQRECFQFTGNFASFCWDH RPVQIITSNNYRESLPWHHLG NLFEPIPSY
23431	53799	A	23566	181	486	DPQGEAKGAAPAEGGGPV*W N\GLQGPAVGPGRDGSPGANGI PGTPGIPGRDGFKEGKGECLRE SFEESWTPNYKQCSWSSLNYGI DLGKIAECTFTKMRS
23432	53800	A	23567	600	888	QYNGMCSPPGAPVGR\EGSPG ANGIPGTPGIPGRDGFKEGKGE CLRESFEESWTPNYKQCSWSSL NYGIDLKGIAGRNCWHILAPVP NIVSLYFGS
23433	53801	A	23568	91	1170	ISLHRRPGPTCSMESPASSQPAS MPQSGKSKRKKDLRISCMSPK PAPNPTPPRNLDSTFTITIGDRN FEVEADDLVITSELGRGAYGVV EKVRHAQSGTIMAVKRIRATV NSQEQRLLMLDLINMRTVDC FYTVTFYGFALFREGDVVICME LMDTSLDKFYRKVLKDNMTIP EDILGEIAVSIVRALEHLHSLKLS VIHRDVKPSNVLINKEGHVKM CDFGISGYLVDSVAKTINAGCK VKHGHESLN\PDNLRKGCDDVKS HVWSLGITMIEMAFRLFYESW GTFPFQQLKQVVEHPSPLPAGR FSPEFVDFTAQCLRKNPARMRS YLELMEHPFFTLHKTKETDIAVA FVKEILGEDS
23434	53802	B	23569	111	193	

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23435	53803	A	23570	312	696	RP*SAHPEPGDCPSPPHPPRCGG VAQTAQVPDAPAPV*AG/QHSR SYMEDHLKKNRLEKEWEALC AYQAEPNSSFVAQREENVPKN RSLAVLTSQPTRNQCLPFLQHG PGDICTPVSISSIVLCHRV
23436	53804	A	23571	1	2974	QAAGMGPPPLLLLLLLLPPR VLPAAPSSVPRGRQLPGRGLCL LEEGLCGASEACVNDGVFGRC QKVPAMDFYRYEVSPVALQRL RVALQKLSGTGFTWQDDYTQY VMDQELADLPKTYLRRPEASSP ARPSKHSVGSERRYSREGGAAL ANALRRHLPFLEALSQAPASDV LARTHATAQDRPPAEGDDRFSES ILTYVAHTSALTYPGPRTQLH EDLLPRTLGLQPDDELSPKVD S GVDRLHMAALSA
23437	53805	A	23572	1	3202	ASRRLPRGHGLSAGQAAGMG PPLPLLLLLLLLPPRVLPAAPSS VPRGRQLPGRGLCLEEGLCGA SEACVNDGVFGRCQKVPAMDF YRYEVSPVALQRLRVALQKLS GTGFTWQDDYTQYVMDQELA DLPKTYLRRPEASSPARPSKHS VGSERRYSREGGAALANALRR HLPFLEALSQAPASDVLARTH A QDRPPAEGDDRFSESILTYVA HTSALTYPGSRQTLREDLLPR TLGLQPDDELSPKVDG

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23438	53806	A	23573	1	1459	MPLTSQDQVQKTA A WVPNTNRD STVPSDPWDCKRRPWLLVLRP LAPGTKAPPGQNGRGRQKGS PCSRRLLEPAGPLGPASVRCIR TTTTQLLIITSLRFPSEAAVGY GSNTCIFANACQMFIMITWPY LQCIPYSVLLKDLERNLRELE DLIEAVYTDIIQKGLDQRNQLL EVDVFCIGRDIRKKDINNIVKTLH EWCDCGEA\ALLGIEQQVLRAN QYKENHNR/TLQQQVEAEDVYI LPQSGNDCRGLRFVSSLIGGVR CVHLKHKGDVAVWEAIEEGEA LPGKYRLKGGRSVWAAAVRA VCMDQVTNIKKTLKATASSA QEMEQQLAERECPPHAEQRQP TKKMSKVKGLVSSSPLGPAGA AGTHQAWVRWGGDTKGFPPL STCSEFQTCPSPHQRLPTLLVLF QKNCYSPSPTPSPFCSLQTQGL HQCHPKTGSDTAQLPSRRFLSL CKGLVSLPVFLLLPFRHFVRLVIK
23439	53807	A	23574	2	396	
23440	53808	A	23575	1	1014	
23441	53809	A	23576	110	212	
23442	53810	A	23577	1	747	
23443	53811	A	23578	323	495	GRAGKWHQTPE*SLRKAM*MF QILMMKMIVALARATSGTEAV AGRSWASGLRRSGRV
23444	53812	A	23579	26	229	
23445	53813	A	23580	1	574	
23446	53814	A	23581	889	1189	
23447	53815	A	23582	170	625	GAAVAALVRPNGGTAASHVCR EMRPLRPLQSRRCRRRTGISN MRALENDFFNSPPRKT VRFGGT VTEVLLKYKKGETNDFELLKN QLLDPDIDKDDIINW/LLEFRSS VMYLTKDVE/QLISILRLPWL NRSQTVVEEYLAFLGNLVSA
23448	53816	A	23583	166	455	RWKPSGTWPRNPMERPGH*ES VPKPGD*AKKSGGETRGRKEG NEHRETFSQIPDCHLNKKSQTG VKPKCKSVCGK VFLRHSLDRH MRAHAGHKRS
23449	53817	A	23584	3	3706	

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23450	53818	A	23585	1	1970	MVTDKAAAGTHGEARPCWG SGSRVHTYRGAGERAMRVHRP MPREDSEVRREADGGKHEQRS FGDLHPTAAPAPAAASGCGTQPG RVKQPGWEQHREAPQORQPPV RPHGSHQLVTVRYERRPGGKE RARLRPGLGCPSGRTPQGRAPQ GTALPTAAAAAIFPSAALTSGQ RNASLPKFYFRGGTWTGSQSEA LCGKLSNQFLGEPLVPRIRLILS CGTCSGCSPPKDPGHPEAGNG PSRDFQLPSEERDSVAFEDVA VNFTQEEWALLSPSQKNLYRD VTLETFRNLASVGIQWKDQDIE NLYQNLGIKLRSLVERLCGRKE GNEHRETFSQLPDCHLNKKSQT GVKPKCSCVCGKVFLRHSFLDR HMRAGHGRSECGGEWRET RKQKQHGKASISPSGARRTVT PTSMRPYETKVCGKA/FISPIYF QIHQRTPTKRSYKCREIVRAFT VSSFFRKHGKMHTGEKRYECK YCGKPIDYPSLFIQHVTRHTGE KPYKCKQFGKAFISAGYLRTHE IRSHALEKSHQCQECGKLSICS SSLHRHERTHSGGKLYECQKC AKVFRCPSTLQAHERAHTGERP YECNCKCGKTFNYPSCFRHKKT HSGEKPYECTRCGKAFGWCSSL RRHEMTHTEKPFDCQKQVKS
23451	53819	A	23586	86	390	LQSGDLPWENPLSSCSLLREKD PPTTSGPQTTSRNPISPNPELA THAGNLATGPRNARSPGFLLSR VPSVWDPTENRTVQLTWQPLP ELLELWPKVL
23452	53820	A	23587	1	502	MLLTQSLFGGLFTRTHMKFGA VTQIRGPPLDGKSPVLLLFALER QRRHVLMSMDPKLRCWSRTGKA AFPWCLIIAEMPDPYSPTFQRCQ TTQGRLPWSFTLSSKSRFSGEG ARACYKCQKSDHQAKECPQPG IPPKPCPICAGPTGNRTVQLTW QPLPELELWPKAL
23453	53821	B	23588	1	663	
23454	53822	A	23589	233	496	
23455	53823	A	23590	2	378	ERQRRHVLMSMDPKLRCWSRTG KAAFPWCLIIAEMPDPYSPTFQRC CQTQGRLPWSFTLSSKSRFSG EGARACYKCQKSDHQAKECPQ PGIPPKPCPICAGPTGNRTVQLTW QPLPELELWPKAL

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23456	53824	A	23591	3	452	VRPRRDACLGPSPLAASPAFLG KGQVQPLISLCPDPLFPHNPLIS LRPNPLCPHDLVSLCPDPFPAF LEAHKNFQTPEPQQGPPIPEPPP PGACYKC/HEI*PPQGMPAAQ DSS*AMS/LSVRDPTGNQTVQL TWQPLPEPLELWPKAL
23457	53825	A	23592	1352	1540	
23458	53826	A	23593	177	383	EAMEPWKGVPLGRVNTEQIAP FSEAEQPREIH*GSRKVRKAAQ GLNEGPRELFWQPLPEPLELW KAL
23459	53827	A	23594	1478	1744	
23460	53828	A	23595	23	178	SCLEVCDEQGPEKTRQRALRG VSSVTEDTLNICRLCWQPLPEPL ELWPKAL
23461	53829	A	23596	1	282	
23462	53830	A	23597	34	241	SGDLPEINPPSSCSLLREKDP MTSGPQT/TSRPNISPNPDPTG NRTVQLTWQPLPEPLELWPKAL
23463	53831	A	23598	121	286	AASFYSSPTSLTIPQLSPFNLGV TLQSLPSLNFNSFLFWQPLPEPL ELWPKAL
23464	53832	A	23599	144	488	GYEIWCRDSQGTTFPWEINPPS SCSLLREKDPPTSGPQT/TPR NISPISNLVSGFLLSPPSLTIPQ PLSPFNLGATLQSLPSLNFNSFH FLVETKETRIFIRGAKIPAPVTD
23465	53833	A	23600	471	677	
23466	53834	B	23601	67	555	
23467	53835	A	23602	1	1440	
23468	53836	A	23603	860	1209	IPGNCRDSSGVGIKERETNAGS QHMH/KNSSVHGYPRLCVEDE DAYKKQFSQYIKNSVTPDMME EMYKKAHAAPNPVYEKKPK KEVKKRWNRKMSLAQKKD WVAQKKASFLRA

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23469	53837	A	23604	1	966	MGFVKVVKNKAYFKRYQVKF RRRREGKTDYYARKRLVIQDK NKYNTPKYRMIVRVNTRDIIICQ IANAIRIEGDMIVCAPYAHLP KIWV*RVGLTNYAAA\YCTGLL AGPAGFFHRFGMDQIYE\GQVIE LTGDEYNVESIDGQPGCLHPAY WDARPLPRTYPLAIKVFQCP*R GA\VDGGLVLFPHSTKTIPFGY DSVESKIEFNAES\IHRKPHPWAQ NVARLHAPTLMEEDEDA\YTK KQFSQYIKNSVTPDMMEEMV/Y RKAHAAIRENPVYEKKPKKEV KRKRWNRPKMSLAQKDRVA PKKASFLQSSRGLLESLTPAIFP
23470	53838	A	23605	1	644	ANSSPVNPVFFDVSIQGEVVG RMKIELFADVVPKTAENFRQFC TGEF/RVSFRCV*LLCLLQRGVL GLQ*GYR*TTCPW*MIAGDSDR RKDGVPIGYKG\STFHRVIKDF MIQGGDFVNGDGTGVA\SIYRG PFADENFKLRHSAPGLLSMANS GPSTNGCQFFITCSKCDWLDGK HVVFVKIIDGLLVMRKIENVPT GPNPKPLPVVISQCGEM
23471	53839	A	23606	638	1391	CPAYKGAHQVCVYCTLPPL QTRRVRRNPTLPTSASGSEPW RLANSSPVNPVFFDVSIQGEV VGRMKIELFADVVPNTAENFR QFCTGEFRKDGVPPIGYKGSTFH RVIKDFMIQGGDFVNGDGTGV ASIYRGPFADENFKLRHSAPGL LSMLTWPGKLTAGIFGFHQANS GPSTNGCQFFITCSKCDWLDGK HVVFVKIIDGLLVMRKIE\GMPC IFQPTWTHFLPVITTCALSALGSM LAAERGTKN
23472	53840	A	23607	2	591	ARAEFGTSRVGAMAVANSSPV NPVFFDVSIQGEVGRMKIEL FADVVPKTAENFRQFCTGEFRK DGVPIGYKGSTF\HRVIKGF\MI QGGDFVNGDGTGSRPVFTRGP ILQMKIFKLRHSAPGLLSMAN SGPSTNGCQFFITCSKCDW/V WDGKHVVFGKIIDGLLVMRKI ENVPTGPNPKPLPVVISQCG
23473	53841	A	23608	6	424	

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23474	53842	A	23609	3	470	DAWVSGRLTELPSCFFPPPIFRQ LLPVMPEPSKSAPAPKKGSKKA VTKAQKKDGKKRKRRESYS VYVYKVLKQVHPDGTGSSKAM GIMNSFVNDIFEIRIAGEASRLA HYNKRSTITSREIQTAVRLLPG \ELCKHAVSEGNTAVTKYTS
23475	53843	A	23610	93	421	
23476	53844	A	23611	2	1173	DHAAPRRRSRASVATVTRAGR CPTMSVRVARVAVVRGLGASY RRGASSFPVPPGAQGVALLR DATGAEEEEAPWAATERRMPGQ CSVLLFPQGGSQVVGMRGGLL NYPRVRELYAAARRVLGYDLL ELSLHGPQETLDRTSQVQSPGT GIPRRVRAHVLHLSPOVIENC/V VS/AGLAFSPSFCALIFPNALL/F WPGLYAVKIRAEAMQEASEAV PSGMLSVLGQPQSKFNFACEA REHCKSLGPNVQICKGGFLGH CSAETSFLPQALRFLQKNSSKF HFRRTMLPVSGAFHTRLMEP AVEPLTQALKAVDIKKPLVSVY SNVHAHRYRHPGHIHKLAAQQ LVSPVKWEQTMHAIYERKKGR GFPQTFEVGPGRQLGAILKSCN
23477	53845	A	23612	187	425	
23478	53846	A	23613	1	1258	MKAYLLGGAAPLPWFPGQAV FRPCPPAGLWRTAQLVELEHG PVPREDLIPCSRPFISFLGPERV DGLAFPRIQALGIAAARGMEPK GAPGKSDSGNSRSAGGRVLGC QGAALVEVCSAGRGPPVRLAV GCVLLRAPERGWRRGEGAARG IPAGRSSSELGALSPOVGVRS DINGINWHPGVQTDFFSLKRSQ GLYAVKIRAEAMQEASEAVPS GMLSVLGQPQSKFNFACEARE HCKSLGIENPVCEVSNYLFPPDC RVISGHQEALRFLQKNSSKFHF RRRTMLPVSGAFHTRLMEPAV EPLTQALKAVDIKKPLVSVYSN VHAHRIQIPGHIHKLAAQQLV SPVKWEQTMHAIYERKKGRGF PQTFEVGPGRQLGAILKSCNMQ AWKSYSAVDVLQTLHEVDLDP

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23479	53847	A	23614	2	1050	GRCPTMSVRVARVAWVRGLG ASYRRGASSFPVPPGAQGVAE LLRDATGAEEEEAPWAATERRM PGQCQVLLFPQGGSQVVGMGR GLLNYPVRVRELYAAARRVLGY DLLELSLIHGQETLDRTVHCQP AIFVASLAAVEKLHHLQPSVIE NCVAAAGFSVGFEAALVFAGA MEFAEGLRFLQKNSSKFHFR TRMLPVSAGAFHTRLMEPAVEP LEKLLKAVDIKKPLVSYSQR PTRIRLQAFPGNIQSCLAQQQLG LPK*KWEQTMHAIYERKKG/R RGFPQTFEVGPGRQLGAILKS CNMQAWKSYSVAVDVLQTL VLDLPQEPKMTGRGLKNDP LCPPEERL
23480	53848	A	23615	600	905	QAPASGSPWLSGGPQQVEDAG AGYGFAFGQPPPPRTQPRSAC SRRAAG/TPVPRAPPAPSAG/PK ARAPRSLGCGSLGRFSTGV KCIFFPETENAAAGCF
23481	53849	A	23616	390	722	QAPASGSPWLSGGPQQVEDAG AGYGFAFGQPPPPRTQPRSAC SRRAAG/TPVPRAPPAPSAG/PR AAAPRSLGCGSLGRFSTGV KCIFFPETEMSYLLFRNTVSR C
23482	53850	A	23617	1	673	MGQVKGHKLCDFTLLSPDGG AAEGRCLELGWQAKEVEETIE GMLLRLEEFCSLADLIRSDTSQI LEENIPVLKA/KLTKIMRGYAK VDRIKAFVKMVGHHVAFLEAN VLQAERDHGAFPQALRRWLGS AGLPSFRNDPTAPLRQVFEASP DPRLARTVTIQTQPPVRVSGPL SGQRKEKSLQKGAQVFQTNVP ETLLEGAISPAPACGGPLTSGD GFRHVRK
23483	53851	A	23618	1	651	
23484	53852	A	23619	195	497	DQFLENTKKCDGLNQLSFDPA NNNKPLEFGRARGPLVTEGLIE NGGESSKKRRRTNSSADNSRT LNVDSMTLPMSPATAWATA MNNFGMAPVRJVGH

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23485	53853	A	23620	241	1823	NDDRKFVTEHTMQDRFRW LWVYEIGYAADNSRTLNV DST AMTLPMSDPTAWATAMNNLG MAPLGIAGQPILPDFDPALGMM TGIPPTPMMPLGIVPPPIPDM PVVKEIHHCKSCTLFPNPNLPPP ATREPPGCKTVFVGGLPENGT EQIIEVFEGCGEIIARKSKKNF CHIRFAEYMYDKALYLSGNR ELKKFLNKEDNYFRKINLTALY KTVLEERCEKRRGGYRIRLGSS TDKKTGRLHVDFAQARDDL EWECKQRMRLAREERHRRRMEE ERLRPPSPPPVHSDHECSIVA EKLKDDSKFSEAVQTLLTWIER GEVNRRSANNFYSMIQSANS VRLVNEKAAHEKDMEEAKEK FKQALSGILIQFEQIVAVYHSAS KQKAWDHFTKAQRKNISVWC KQAEIRNIHNDELIMGIRREEE MEMSDDEIEEMTETKETESEL KKLEGIVDGSVEVSAEALRKL NEYERQVKEEQKVGYRIWGTI HNKGEGKKEFAEELEKSSSER
23486	53854	A	23621	996	1512	RPVHLASPAKEQGGTRKGRRA PARLPVPTTGRGLEKGPESQAP PSFRQATGRFSRSGSGGPTPSK NSRDCSHTPQLPTPRGNPVVFP PGHPEPSRPVEMPAPGEPRTQ LCRERTRKACPPKPRPPLGLPG DPTGPVTHHAPPVSPTGASGQE RRAEPGAVSYAHASATK
23487	53855	A	23622	293	1140	PRGILHQDKNLVVINKPYGLPV HGWPGWQLCITDVLPIAKML HGHAEPHLHLCHRLDKETTV MVLAWDKDMAHQVQELFRTR QVVKKYWAITVHVMPMSAGVV DIPIVEKEAQGGQQHHKMTLSP SYRMDGKMKVVRSSRNAQV AVTQYQVLSSTLSSALVELQPI GIKHQLRVHLSFGLDCPILGDH KYSWNR LAPQKLSVGTLLKLL GLEQSKARYIPLHLHARQLILPA LGSKEELNLVCKLPRFFVHSL HRLRLMPNEDQNNENAEKCL

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23488	53856	A	23623	1	1328	MAVDLGSHTPGSSGVTAATFR GRLVNTREESVVLGAGGEVL SGVPGTWDALGPGASFGIKGM FPKGTVMSTSPMCEGPVPRRK PCASSVQQNSRSRKKAGRKTP TLAGRHVPVKIKKEAIQKPLP ASSFSPALTRSGAIFGPCALTS APVLEYPLQKVVENAEFKVFN NRDEESKRQKQAEFRMLTSAIR GPAGPRGHSSTRKPPSNPPPPGA CFKCGNEGHRSRQCPNPGTTSQ EALIALTRALTLAAGQQINIYS NSHYVFHIVHSHSSIWKERGILT AKNTPAINGSLINKLLKAARLP QKVAIHICRGHQTPDNPILAGN VLADQVAKQVALQPVGQQLS LSLFSPLYSSEKEDFRAQNLQ KQGPW/LQSQGARLLVPAACAS KVAEAGRKPAGRHVPLKIQKE AIWSSPFSVPMATRAAASTSPT
23489	53857	A	23624	475	622	IHSKVLFSASSSSC*NTNNSWFR ASIKKNPEKQKNMQSAIPQHG LWKI
23490	53858	A	23625	17	992	GRGEVLGRGRGQLDAVLSRE HCGGSRQSEQPWSRRSSSSSR RRLRSAEPAMALSMPLNGLK EEDKEPLIELFVKAGSDGESIGN CPFSQGLFMILWLKGVVFSVT TVALKRKPADCQNLVPGTPPP LILFSSEVKTDVKNKIEEFSEEV CPPKYLKLSPKIHPRSN TAGMDI FAIKFSAYIKNSRPEANEALER GLLKTQLKLD EY/LNS/PLP/DEI DENSMEDIKFSRKLFDGNEMT LADCNLLPKLHIVKVVAKKYR NFDIPKEMTGWIWRYLTNAYS RD EFTNTCPSDKEVEIAYS DVAKR LHQVKSRLLEKVSFMSPP

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23491	53859	A	23626	1	1128	MALASGEGLPVALSHGRRNGG QERVYPYLKLRDTCAYRVAWRC NRLARAKVKRTSYRSGYNGGF EPGVEPDCVLLALGVENDLV RISSKAKEYSLYEFSFPLRVSRE CEECECRKEPWFNPQKPSVLIT SGQILGQEEQKTLFPGLILSLVF QFNVENSDLRCLSLAENLEISAL LSLSCSSVIRLILINLEVTISPPITI LKHAPPLTSLAASSSSSGIEKKIH NNFRQGPFPSSATRSTFLMNH TFDYSVVVSNIVPRLNLYPQVL DVLQSLHKIHLASNAKWITQGG PAKPDILGLEILHRYPDWEKE ERKKKKRKRVSPEKSITTHNKP TSSGIFY/RPRRCGCDLGRPPAP GPHPSPPHSPQPSRCPPV
23492	53860	A	23627	3	453	SLGKDIRPRSARAACKGVGLWS GCFGKMAGSGVRQVTSSTASTF VKPIFSRDMNEAKRRVRELYRA WYREVPNTGER*RLVRPAVLK HSYVANRSF
23493	53861	A	23628	3	695	PYASRRKFRVDPRVRAWSGCF DKMAGSGVRQATS/TASTFVKA HFSVGMDMNEAKREGARVLTAP WYRLEVNTVVRVHQQLDITV KMGRDKVREMFMKNAHVITDP RVVDLILVIKGLIELEETIKVL KQRTHVMRFFHETEAPRPKDF LSKFYYVGHDPKLSFSGKDAR WILFLGAQIKLTIQWSLCDRIPL MNQFSAASFCLSKWGPWVLHI TCSFPFSWCKGVCCKLID
23494	53862	A	23629	82	441	SLPINVPVPTACTLQAGLLRPPG SDVRTPMLPPSAPSQPSYPTSRP PLWPTWPA GPVFRSQPLAQPN LPRSYHQQAPGGQTPVALGLE\ CPKATNQPFGLQRDPKSPAKV PPFEESL
23495	53863	A	23630	3	504	DRSSSSTMTSGDGFNPLRKFK LVFLGEQSVGKTSLITRFMYDS FDNTYQATIGIDFLSKTMYLED R/TNVSFQQTTKWIDVDRTER GSDVIIMLVGNKTDLADKRQVS IEEGERKAKELNVMFIETS/AKA GYNVKQLFRVAAALPGIMPS VLFQIHPQALTRYLC

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23496	53864	A	23631	416	1239	GGGRSSSTMTSGDGFNPLRK FKLVFLGEQSSIGKTSLITRFMY DSFDNTYQATIGIDFLSKTMYL EDRTIRLQLWDTAGQERFSLIP SYNRDSAAAVVYVDITNVNSFQ ANYKSGIDDVRTERGSDVIM LVGNKTDLADKRQVSIIEGERK AKVELNVILMETSAGVYNVK QLLSTCKQPALPGMESTQDRSR EDMIDIKLEKPPQEQPVSEGGFLF LTNLPCHLQPFQKLTGFWPPY SFIDCSVNI GLMPFPFSNNVLRFI IAACPAWR
23497	53865	A	23632	1	493	PKPATAPPPSLRARFLCPQRRP ERARPRARGASPRPEKTAGAR KRRRGSCERPHPGG/RPPAPG*I SSRPTLGFFWILNFFLLKKLGRI KDVPWQDSTKEHLSVCRGLRG TWSVPSADPLHPAARRTCFRV PPTTGAREWWHLPPALQRP DSRQCHRI PVC
23498	53866	A	23633	1	560	MESIWAGLWTAQDITVLADDF EFILWTLKRRPERARPRARGAS PRPEKTAGARKRRRGSCERPH GGLRLPGARDQAPRSDAG RSPGRLRLPALCAGPLSPGRE PRRWEPRAGVARPAGQQWGFF WPGNQQGASICSLLWFLLECG SRSTGGPCSGTELGHFSRERPTV LLSRLGTVKRP
23499	53867	A	23634	32	327	LTQRLFGLFTRTHMKFGALTR IGIDLPEWENPLSSICSLPEKDP PMTSGPQTDQPKHLTNFKSAA RRSSRTSSHRNLLHVLEIWQLD QGMPAARD
23500	53868	A	23635	2	424	LTPFSDSAHLHPGEINSPVAHTK PVGGFLTRMRVTFGAKTQDRS TPIQETSPSSPS/PVTS GPQTNQ PKEHLTNFKLGKQSFHSSHASL ATLQSSSLATLQSPCPNSNSFS SLVETRRRPGAVARLQSQLSGR LRGRIA
23501	53869	A	23636	31	246	TAILLTQSLFGGLFTRTHMKFG AVTRIGDLPGWGINPLSSCSLR EKDPLTISGPQTHQPKHLTNF KSGPH

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23502	53870	A	23637	125	464	TAVFLTQSLFGGLFTRTRMKFG TMTRI/RGDLDPWEINPLSSCSLL HEKDPPTTSGPQTNPQKKHLTN FKSRKVERTKGLKTHLTKLSH QLKKAWTILLPLSLRIQACPR NAT
23503	53871	A	23638	1064	1304	TAMLLTQSLFGGLFTQMCMKF GAVTRIG/DLPWEINPLSSCSLL HEKDPPTTSGPQTDPRKEHLNF KSGACYTCRKSCH
23504	53872	A	23639	539	747	TAMLLTQSLFGGLLTRTRMKF GALTRIG/DLPWEINPLSSCSLL HEKDPHTPSRKIHIRPQGNHESQ KGL
23505	53873	A	23640	709	950	TALLLTQSLFGGLFTRTHMKFG AVTQIGDLPWENQSPVLLCSLL REKDPPTTSGPQTDQPKHLTN FKSGKWSFHSSPAF
23506	53874	A	23641	1	1257	MGKKVLGIASQLLGAVRCEPD GRRVLPEDWPECLSLVTHGTW FTRQGDKNIQMADNSFSDGVPS DFVEAAKNASKTEKLTQDQVMQ NPGVLAALQERLDNAPHTPSSY IETLPKAVKRRJNALKQIQVRC AHIEAKFYEEVHDLERKYAAL YQPLFDERREFITGDVEPTSDM ESEWHRENEEEKLAGDRKNK VVITEKAAATAEEPKNKGIPEF WFTIFRNVDMSELVQYDEPI LKYLQDIKFHFQPNDCFANSVL TKTCKMKSEPDKADPFSFAGPE IMDCDGTIDWKKGKNVTVKI IKKKQKRKGPQVTRITKQVSN ESFFNFNPLKASGDGESLDKD SEF/ASDFEIGHFRER/PQAVLY FAGEALKDDDNFDEGEDEEDEL EGDEGEDEDEVEINPNKEPSQ
23507	53875	A	23642	132	1277	
23508	53876	A	23643	1	515	RVRHRSVSVGSTHASAHAYGE GSLRIIPVTRSPVLTMNHIVQTF SPVNSGQP/PNYEMLKEEQEVA MLGAPHNPAPPTSTVVIH/IRSET SV/DPHVV/WSLFNTLFMNTCC LGFIAFAYS/VKSRDRKMVGVD TGAQAYASTAKCLNIWALILGI FMTVLLIIPVLVYQAQR

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23509	53877	A	23644	243	643	NHTVQTVFFSPVNSGQPQRM CIKEEHEVAVAGGPHNPAPPTS TVIHIRSETSVADHVVWSRVQ TPSSMNPC/CLGFIAIRLTP*SLR DRKMVGVDVTGAQA\YASTAK CLNIWAHDSGASVMTILLIVIPS
23510	53878	A	23645	3	1498	RCNFLRSSRIRVHPTPAASTMP KFDPNEIKVVYLRCCTGGEVGA TSALAPKIGPLGLSPKKVGGDIA KAMGDWKGRLRITVKLTIQNRQ AQIEVVPASAMIIKALKEPPRD RKKQKNIKHSGNITFDENGNIC STDMR/HRSLSRELSGTTKEILG TAQSVGCNVGDRHPHDIIDDIN SENDKQPRKSKMRTSFSFPQIPG HEHFHYLLLLQHVCQLALTL RARKEGSSTHHQLSTYYFKEG NSKEPKIQRNTELKKEEGG GGSGKAPGSEIKLESPACSGASL GEMTAWTMGARGLDKRGSEFF KGPLPNTCGHFWEVMEQKSR GVVMLNRVMEKGSVEFVTEL FFYVALPKMFPVHYIVILLASKL EEVTFNFPPPDLCPTFLQNYLR VAFQEVNSGCTGKTLVVPYIT TEDVCQICVEKFKVGDPEEYSL FLFVDETWQQLAEDTYPQKIK ELHSRPQPHIFHYVYKRIKNDPY GIIFQNGEEDLTTS
23511	53879	A	23646	361	918	GCTGSRGTVPVLSALGPQRJGPP GSCLQKSWVNDICRQPG/DW KGP*GFTVKLTHSRGTQAPDCT RVP/VLPSCP*FIQSPREPPKRPE KKPEKTFKHQLGIFTFLNEICST LLRQMRVHRSLSPEKLSWNPT* RDSWGIAQFSGAVNVDG/RH/P HD/IDDIQQWVLWKCPRLST KENIFNKGII
23512	53880	A	23647	1	642	

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23513	53881	A	23648	894	2438	VETKRIQPQPPDEGDHSDKED EQPQVVVLKKGDLSVEEVMI KAEIKAAKADEEPTPADGRIIY\ RKPV\KHPSDEKYSGLTASSKK KKPNEDEVYQDSVKKNSQKLII NSSLLSFDNEDENDTEKSMENL TGKIRKLQLRIVDPTFLPKLSNK GKDPVAVARLETGKGNKGAFR VLRDISRWATLCTSPQHSSEA KNIIPIYQATQFQNEVHKWYKK KGGKIKSKRKALFFLTQDIQKK LQKLALGPNTPTPDILKIASLVF YNQDQEEKERAAQNERQKEKL YWL.SYKSASPFQVALRILSQET THKDELPTDLPNNPEVQAPGIP GNTIMAMPVAIQLKDPSSYPGR IIVPEIASWIHRTQVKLWKSPE TSELEPTPSVIEYTREALEDLKF LFKQKDNSSAKTPGRAYAASPR DWTSEIAELHIFYQWDPNLKG MFKPASLLAKVKQDFPDHKE PIFAIFSNITLMGIAPICVTGKTI KKRTRQHHTTPKSNLREQASQ GSLNWEKN
23514	53882	A	23649	200	1727	RTATSLDSVLKSDYMTWKYR VSFFYILSCRLLKK/QCTDNEHV YMEISKLYKYPCKEWWKEAS KVRQYEVTVVWSKRGDYILK HIPNMHKDQFALTASEAHLKYI KEAVRLDDVAVHYRYLYKDK REIEASLTGLTMRGIQIFQNL EEKQLLYDFPWTNVGKLVFVG KKFEILPDGLPSARKLIYYTGP MRSRHLQLLSNSHRLYMNQ PVLRRHIRKLEENEKKQYRESYI SDNL.DLMDQLEKRSRASSSS AGSMKHKRLSRHSTASHSSHT SGIEADTKPRDTGPEDSYSSAI HRKLKTCSSMTSHGSSHTSGVE SGGKDRLEEDLQDDEIEMLV DPRDLEQMNEESLEVSPDMCIY ITEDMLMSRKLNGHSGLIVKEI GSSTSSSSETVVKLRGQSTDSL QTICRKPCTSTRHSLDDIRL YQKDFLRIAGLCQDTAQSSTFG CGHELDEEGLYCNSCLAQQCIN IQDAFPVKRTSKYFSLDLTHDE
23515	53883	A	23650	182	423	RLSIMASSLNEDPEGSRTYVKG DLFACPKTDSLALHCISEDCRM GAGIAVLFKKKFGVQELNLQ HYKEKGLRTSGLYG

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23516	53884	A	23651	1	249	
23517	53885	A	23652	435	494	
23518	53886	A	23653	163	578	RVTWLK KHLNSGNSDSVCMAS SLNEDPEGSRTYVYKGS LFEGP KTDFLAPCISED CRMAGITVL FKKKFGGVQELLNQKKSGE VAVLKRWRWGLYIFTWTKRK RAFAQSPLYENLTFEFRGQLKS HLSEEWSH
23519	53887	A	23654	1	2238	
23520	53888	A	23655	26	1941	RDAGTKWQRLGHLSCICRQQA AREIIMHFQAFWLCLGLLFSI NAEFMDDDDVETEDFEENSEEID VNESELSSEIHYKTPQIGEVYFA ETFD SGRLAGWVLSKAK/KVD MDEEISYDGRWEIEELKENQV PGDRGLVLKSRKHHAISAVLA KPFIFADKPLIVQYEVNFDQDID CGGAYIKLLADTDLILENFYD KTSYIMFGPDKCGEDYKLHFIF RHKHPKTGVFEKHA KPDPVD LKKFFTDRTKTHLYTLVMNPDD TFEVLVDQTVNKGSLLEDVV PPIKPPKEIEDPNDKKPEEWDER AKIPDPSAVKPEDWDESEPAQI EDSSVVKPAGWLDDEPKFIPDP NAEKPD DWNEDTDGEWEA/PQ ILNPACRIGCGEWKPPMIDNPK YKGVWIPPLVDNPNYQGIWSPR KIPNPDYFEDDH/PILLTSFSALG LELWSMTSDIYDFNFIICSEKEY ADHWAADGWRWKIMIANANK PGVLKQLMAAAEGHPWLWLIY LVTAGVPIALITSFCWPTKVKD RHSLEYIIPDICIPQTKGVLEQE EKVEKAALKEKPMDEEEKKQ/N DGEMLKEEESEPEEKSEEEIIEI EGQEESENQSNKSGSEDEMKEA DESTGSGDGPICKSLRKRVRKD
23521	53889	A	23656	297	398	
23522	53890	A	23657	286	430	TAGARCSSRTSSPGSCFNQKS GHWARNARSPGFLSRVPSVN WIHI
23523	53891	A	23658	405	524	ARMSVACLPGFLFICLRGDFKQ NLTA YCWKC YQL* RSLGTHS
23524	53892	A	23659	1	657	
23525	53893	A	23660	22	334	ALKHFCLSLIFSVTMMKFLAV LVLLGVSI FLVSAQNPTTAAPA DTVSSLLVLLMMKPLDAETTA AATTATTAAPTTATTAASTTAR KDIPVL PKWVGDL PNR

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23526	53894	A	23661	1	270	
23527	53895	A	23662	1	284	
23528	53896	A	23663	111	281	
23529	53897	A	23664	229	363	
23530	53898	A	23665	250	586	PVRHGAFQDKSSDKKVQTKG KRGAKGKQAEVANQETKEDL PAENGETKTEESPASDEAGEKE CQCLINNHIPCLISGPCLPSCTIQ RNINIFYVFNASFLVALETFLLKK
23531	53899	A	23666	3	478	APAVGLSSSGGRRSGSOKAARF REGCRRAAARMQQAAGTRLPR RHPARAFPAATMPKRKVSSAE GAAKEEPKRRSARLSTKLPAK V\EA KPKKAAADKSSDKKV\Q TKGKRGAKGKQAEVANQETK\ EDLPAENGETERLEEESLLIEA GEKEKPKS
23532	53900	A	23667	1	252	
23533	53901	A	23668	328	414	
23534	53902	A	23669	1	3156	
23535	53903	A	23670	1887	2036	
23536	53904	A	23671	3	212	
23537	53905	A	23672	22	539	YEGIVMKPLIIVNPADICG\RT CE\VACVVAHPSEQELNADVFL PRLKVQPIWTVSAAR*CCPFSS ENAP\CVGA\CPVGA\TMGEQV VQTNSARCIGQSCVSA\CPFGM ITIQLPGDTRQIVKCDLCEQR EEGPACVESCPTQALQLTERK LRRVRQQRIVVSGENPL
23538	53906	A	23673	135	302	PIHMKTRQPRDQFSADCVFLQS TCPVPC*RNRL*TPGGYWRTRR DYLRCDRSVHV
23539	53907	A	23674	175	794	LSTHSQPIADAADPPPHLHTGEL LCSAHQADFVSAEPARPANN NAATTAPVHAVAITPPAYPDCF RTLPKLSHQDSTQRLYGIAL LLRISTSGPPSRLKVQRLDSISA PV\MCHQCENAPCVGACPVGA LTMGEQVQVQTNSARC/IGQSC VSACPFGMITI/QLPGDTRQOI VKCDLGCALRDCVAVLRQRN SRVVLDACTRA
23540	53908	A	23675	2	434	LISLPFPDLSLAHRPPSSAPTEPQ GLFTVAAPTGPASPATLAHL LPTPAMYSLLETENKPNVGTPT QAAGTGGPAAAG/GRKMALEN PKMHNSEISKRLGADWKLLTD AEKRPFIDEAKRLRAVHMKEYP DYKYRPRRKTTL
23541	53909	A	23676	3	264	

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23542	53910	A	23677	1	2377	MDDTFLNYKYKNKCGPKHIKK KEEEEEEDNNSNDSKNKD KTLT TGSSGSAKIFLMRGRRQLLLP TSLCLLSVQRSPGSHSGPPQS MNPRLSPQGYLKNDFLDVIG MCDIACHLVVELLVGNNGNFI AHAFHVEVVAQQNQRENAA RPNGGSVMIGQGASLRTCQSRV LRVARGGSPNPGSEQLFTV AAPAPGAPSPATLAHLPPA MYSLELETKNPVGTPTQAAAGT GGPAAPGGAGKSSANAAGGAN SGGSSGGASGGGGTQDR VKRP/MNAFMVWSRGRRKM APENPKMHNSEISKRLGADWK LLTDAEKRFIDEAKRLRAVHM KEYPDYKYRPRKTKTLKKD KYSLSGLLPPGAAAAAAAAA AAAAAASPVGVRQLDITYTH VNGWANGAYSLVQEQLYGAQ PPSMSSPPPPALP/MHRYDMA GLQYSPMMPPGAQSYMNVAA AAAAASGYGGMAPSATAAAA AAYGQQPATAAAAAAAAAAM SLGPMGSVVKSEPSPPPIASH SQRACLGDLRDMISITGRENIFV VGDPAAACLLPIEMEETFLPWPL GFEDRLHLEGRPVQEIPIFLRK VPNCGQWLLQTPSVEPADPWE NPQAFPPSLQEQPCLSLIVGIF VEAFGGGRGWGSKGKKPKRYR TVEWMRIHQPSICCLQETHLTR
23543	53911	A	23678	1	399	

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23544	53912	A	23679	3	1216	LGNKRAGLRADGEAPSALPY CYFLOKDAEAPWLSKPAYDSA ECRHAAEAALRVAWCLEAASL SHRPGPRSGLSVSSLRPTRKMA TTFLAHEKIWFDFKFKYDDAERR FYEQMNGPVGASRQENGA/T VILRDIARARENIHKSLAGSSGP GASISGTSGDHGLVVRASLEV ENQSLRGVVQELQQAISKLEAR LNVLGKELRLAHRGTAPQTQH VSPMR/QVEPPAKKPATPAEDD EDDDIDL/VGRDNEEEDKEAA QLREER/LRHYAEKKAQESLP LGGQVPPSLLDVK/PWDDSDM AQLEACVRSIQ/LGTGRSWGAS QMVA VGYGIRKLQIQCVVEDD KVGTDLLEEITKFEARARSV DIASFSTRSEALKCVYVAHVRE GPCTRSKDLRPAKKKKKK
23545	53913	A	23680	1	2066	MAAALRAPTOVSAASSRPLPS PPTEGRVKGFQPGPHCPAQ LCSGDDGSDNELEQKREVI PHEAPVAEHRQQTGLRELVAI PKRKEETTAIVQVFVAFEDVAI YFSQEEWELDEMQRLLYRDV MLENFVAMASLGCWCGAVDE GTPSAESVSVEELSQRTPKAD TSTDKSHPCIECTPVLRLQMI ELHASPCGQKLYLGGASRDFW MSSNLHLQQLDNGEKLFKVD GDQASFMMNCRFHVSGKPFTF GEVGRDFSATSGLLQHQVPTTI ERPHSRIRHLRVPTGRKPLKYT ESRKSFREKSVFIHQQRADS RPHYKCECGKSFSSGFLRHR KAHGRTRTHECECGKFSR THLTQHQRVHTGERPYDCSEC GKSFQVSVLIHQQRVHTGERP YECSECGKSFHSTNLYRHSRA HTSTRPYECSECGKSFHSTNLF RHWRVHTGVRPYECSECGKAF SCNIYLIHHQRFHTGERPYVCSE CGKSFQKSVLIHQQRVHTGER PYECSECGKSVFSQSSGLFRHRR AHTKTKPYECSECEKSFCKTD LIRHQTVHTGERPYECVCGKS FIRKTHLIRHQTVHTNERPYEC DECGKSYSSQSSALLQHRRVHT GERPYECRECGKSFTRKNHLIQ HKTVHTGERPYECSECGKSFSSQ

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23546	53914	A	23681	1	468	MAAQVQGA VRV VRA VAAHEEP DKEGKEKPHAGVSPRGVKRQR RSSSGGSQEKGRPSQEPLAPP HRRRSQPPTSWAAA VNDM/PAP TVPGPVEPLLPPPPPSLAPAG PADDAPLPAPSTSGLFTFSPSLTA SAAGPKHKG TQGAQAQAPSPRP RW
23547	53915	A	23682	950	1326	RPESQRANGVDSGPNLKTVPQP DTRKGSVLK WISKRGKPLAVEI EESHCLCLPLRTECLGIKP/IVH LFSCTRPVIVPSLELNYDVDSIA HMFVADLLMITLPSYDIPFYC LVFQNL L VLEFQYL
23548	53916	A	23683	271	918	NQGLRDLGLRCLVNMFTSS ILGKGHRHSLVSIKQEHSLARK AAGVPLPKVGYC/QGFSPCDSL KYGSWDEKDLTVPPDTHKGS VLRWISKRGKPLAVEIEEG/HCL PELPPGELECPG/ILKHGLYHWS SSEMGEINRPMVG/ARHVVYNA ALLFFTLALRIFQRRNINLGLRA HPGIVPPLELNYDIDSSAH/FF LADLLIITLPSYIIFC
23549	53917	A	23684	1	942	
23550	53918	A	23685	346	1753	TWIPLSRTGRFPVFCSSSRVY AISFHKRWKEGRCFGRTRGE MGWEGRSRSLKELNTRNDWNP GERELDFWKITRFKEAASWTL EALIEAGSTARRRVWLEDGR TCEILSVLCTSSSSNCASLDCV TYKALSTTRLYDSVYWNKKPE RSSSPATEQSWTENDFDKLR GFRRINYSSELKEARTHGKEVI NLEKK\DLRLTRITNAEKS LKD LMELKTMAREL RDECTSFSSQF DPLEERVSVMEDQNMENK/QE EKFREKRIKRN/EKQSLQEIWDY VKRPNLHLIGVPESDRENGTKL ENTLQEIQENFPNLARQANIQI QEIQRTPQYSSRGATPRHIVR FTK VEMKEKMLRAAREKGRVT HKGKPIRLTADLLAETLQARRE WGPIFNILKEKNFPRIAPAKL SFISEGEIQYFADKQMLRDFVTT RPALKELKALNMERNWYQ PLQKHAKW
23551	53919	A	23686	73	327	GALQPTAALWEPLSGLAKAAA RSLSLQGGVEGDARAGTGAAR GACGPGAGVPGGRGLGGPALGA AGRPGP*LPSRGAGLGTAAARHA

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23552	53920	A	23687	322	402	DQEPNTSGHIGNLEQCLGHGYQR*LFP
23553	53921	B	23688	545	3063	
23554	53922	A	23689	1	579	MKHEKRDRCAELTAILNEQAS PMCTIVLGYTGTSTITLPRTSCH FAPRLSNSQQHSSYQVGHKPE YCVRNWWVLGLTDFKNEAAD PHNSGGQLASPSGSRGTGAAGV VPASPAPCARTPQPLGGRWDW AP*GTGGGIRRGSGCTGTHGG GGRLRHGGLQSGGLPRGKA ARREIESSAGYSNSSKCSII
23555	53923	A	23690	399	592	KCIHFGPTPKFVCGVIVVTAVP /TFGM*TVYV**LPFSILAQNVG *RDDCDPGWKLNLFYAKKKK
23556	53924	A	23691	3	268	DRV/RPLRKNFQRNDQTAFTV HENPLLCYRCWYPGKQEQQK IKPQRGGKNRAEKLETLKSRAP LLFQRNAVPHQQRNKAGWRM TLTS
23557	53925	A	23692	29	484	CSFFLVSMVFTFWHDFAAAGTS CSFFCLVLSFRSSFRAGLVVTKS LSICLSVKYFISSSLMKLSLAGY EIVG*KFFSLRMLNIGPHSLLAC RVSAERSAVSLMGFSLRVTRPF SLAALNIFSFISTLVNLTIMCLG VALLEKYLCGILCVS

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23558	53926	A	23693	182	2076	MQEWLRLTARKTELSRDSRSC GQLKTSLLISLLVESTQGRH*SF L/VWTQTHSGGDGWRVAKAW RPKYHDTQLGGEKEEPQGHHA SDCRWRAQPHCRTLSAAVVNV AGFTVTVELRCLTLMKMREKD HHLCDNDIVLFPPDTAFPLDCL LSCIHSTVHGLLRWNAIYQLAS RSESHPERSEGGTPDRNGHPAL SLASFNGAQDRTTVQSLGEKP GLPEEMA AFMAGTEKEQNELG IEFFQLIIPASKRTHSENALFSHS GDDTECSRSGQSPPSYSRGPP RRTFILATQPLCSKEAQTSPHEQ PTRTEKNRGSHLYHKSPCDHAS PGMSVTMSGMQALPRQLTTL TFYPPAFRSIKIFRIMILKTEMLH THARSQEALLKDSSKTMHLSTL PSCVRKSNYHHRERKIKTKEAF PAKIHRSRNQGMKVEVAPLTIT SSDPLAEFLLPVTVTLCASLEV LAPEGGMLSPGDATMIPLNWK LTLPPGHSGLLPLSQQVKKRV PVLVGVIDLDYQDEIDYSSMK ERSSSPATEQSWMENDFDELRE EGFRRSNYSELREEIQTKGKEV ENFEKNLEECITRITNTEKCLKE LMELKTKVRELREECRLRSRC DQLEERVSA MEDEMNEMK
23559	53927	A	23694	933	1118	RVERRRLQTIKLRATGGNSNQ RQRS*KL*KKFRMYN*NNQY REV LKGADGAESQGSRTT
23560	53928	A	23695	2	250	WCHTKLDGLSLFGESVALEEA GGQTALWLMRFLSRKANYVD KITTREVGHR*LMSSRLHSR* WAASSVCSSCVLLPSSHS
23561	53929	A	23696	1017	1230	
23562	53930	B	23697	62	1069	
23563	53931	A	23698	216	582	ILVPTLFWLGEFLLRDPLL*W ASI*G*PD/AFSLAALNIFSFISTL/ RESNDYVSWCSRSRGVSL*RS YFLNLNVGLPCQIGEVLLDNIL QSVFQLGSILPVTFGYTNQMQL WFFHFIHFIHH
23564	53932	A	23699	434	681	TLACLARLKGFSWIIISCRVFSNL VPFSLSLSGTPIRRRFLGT*SHI SWRLCSFLFILFSLNFPSPRISFV SSSITD TLSSS

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23565	53933	A	23700	290	1231	RSFRAIGEVSIGSRGWGGGYAAQ LQSPSRLPVLGGGKGGSRGV GQGSSRAEVLGSQRERSGTCC AEAAAAAAQLIAGTGSSLPYQG PGQNQTAIAPTCAPLSPCKAAA VIMGNIFGNLLKSLIGKKEMRL MVGLDAAGKTTILYKLKLGIV TTIPTIGFNVETVEYKNISFTVW GCGVARDKMRPLA/WRHVFQNT QGFDILWSDSNDR/ERVNEA/R EELAMKNAGAETSLRDAVLPFL/ FGNKTDLRNAMNAAGUQDKL GLHSLRHRNWYIQAATCATRG NGLYEGHLWLANSPVQKEVES RTALTAKHPNRP
23566	53934	C	23701	164	208	
23567	53935	C	23702	1	381	
23568	53936	C	23703	43	276	
23569	53937	C	23704	1	462	
23570	53938	C	23705	38	121	
23571	53939	A	23706	77	202	QKNYTQRPLPLHGLELEVTCR CWSWQPLLEPLELR/RLSD
23572	53940	A	23707	123	209	
23573	53941	C	23708	1	411	
23574	53942	A	23709	1400	1809	SSNPLSRPPLPTPTVPCPLRLSL LRACCCCLFLPLRFFSCPLLCLF/ LCFFFSVCSPAHNFKMPKPQW SGIPTGPPPSGSCFKCQKSGHW A/RNACSPGFLLSHVPSVWDPT GNQTVQLAWQPLLEPLEL*P/R LSD
23575	53943	B	23710	76	358	
23576	53944	B	23711	1	606	
23577	53945	C	23712	272	388	
23578	53946	A	23713	1	259	PGVRGAQGGPSIPRQCEESAIGP KFAWISSFHWKQGMFNMEAP SSLFFVNMCAVKKQTTWGRPD RGFIWQPLPEPLEL*P/RLSD
23579	53947	A	23714	684	917	GDFGLRQWGFNLNIQSCHLQTGT P/LPLFLIEYPLFLSPA*L/PWPELP TLCCIGVVREGISVLCQFSKGM LPVFAHSV
23580	53948	A	23715	618	683	
23581	53949	A	23716	306	710	DRVSLTLPRLG/VQWPDPSLQ RPPGFKRFYCLSLPSS*DYRHEP LLPAYFFPYRIIGWSRL
23582	53950	A	23717	2	88	

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23583	53951	A	23718	972	1967	FPPGRGRGPRPAGCSRGRARA CPKPVVDHVVRPNAFMVWSR AQRKMAQENP/QMHNSEISKR LGAEWKLLTESEKRPFIDEAKR LRAMHMKHEPDYKYRPRKPK TLLKKDKFAFPVYGLGGVAD AEHPALKAGAGLHAGAGGLV PESLLANPEKAAAAAAAAAAR VFFPQSAAAAAAAAAAAGS PYSLLDLGSKMAEISSSSSGLPV LNMPMNHINSLGKNLALNLFV YNDANSMLDLCYDGVGKGPI CFCATQGYEDIFKAGYGSVVD YYNDGSDLTTPLEIATVPTFSN HPLMSQRPSTWRQNPPLAKRLP LTEDSDGDDH
23584	53952	A	23719	2	144	RPQRRP/LPPTGSPLKHPGGAS GAAGAPIGEPQHPGAVVSRA WSLCS
23585	53953	A	23720	219	897	PGRAGGTLGLGSRRDGTREKG VEETPHRLHARTDTPAGCCGS PIGAPAAPEAPPCCFEG/PRWVE GVKKASPLPAELIGWLWNFPL ARPVRPPLSPGPPRRPPEGVCG SWPGRSEGERGKAKNTAESTPR QNLHRKYTIIVTHYQRNRKGQ NISFSLVCEFHPSLADWTTVTA LTWTSKDNLSLTTESWLREGN VHRGMDEYVRAQSFLIMTLE NSGGSVVSK

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23586	53954	A	23721	937	2730	TNPHCHDHYYHHHHHCHHCH HHHHHCHHHHHHHHHHCRDH HYHHHHHCHHCHHHHHHCHH HHYHHHHHHCHDHHHYHHHH HCHDHHHYHHHHHCHDHHYH HHHHHCHDHHYHHHHCHDH YHHHHHCHDHHHYHHHHHCHD HHYHHHHHCHDHHHYHHHH HHHHYHHHHHCHHCHHHH/P HHHHHHHCHHHHHYHHHHH HHHHYHHHHHCHHHYHHHC HHHHYHHHHHCHHCHHHYH HHHHCHDHHYHHHHCHHCHH HYHHHHHHYDHHHYHHHHHCH HCHHHHHHHVHHHHHHLCHH HYHHHHHHHHHHYHHHHHH HLHCHHHHHHHHHHHHHY HHHCHHCHYHHHHHHHHYHCH HHYHHHHHHYHHYHHQHNNH YHPRHHYHHHHYHCHHHHDYH HPRHCHHHHHYHHQHYYPIII TTTITTTITTTITVTITTTITNT TAPTTPVTAITTTTITTTITTT TPITTTITNTTTTVTTVITTTT TTTTPHYHHHHHHHPVTITTT TATITTTTTSITTTTITVTIT TTTAATHHHYHPYHHYHHHH HHHHHTHSYHHHHHHHHHCF HYHHHHYHHH
23587	53955	A	23722	2348	2571	
23588	53956	A	23723	4919	5142	
23589	53957	A	23724	2	370	
23590	53958	A	23725	588	701	
23591	53959	A	23726	295	521	
23592	53960	A	23727	2837	3061	
23593	53961	A	23728	272	436	
23594	53962	A	23729	239	514	
23595	53963	A	23730	105	367	TGRPPELLHLRSLSPPLL/CSSP/ TPPPQLPPPVSLASGYLLHPL ARYPACLPPIRRARTEQRGGEQ PGVGASPLPIGRWPGTEAT
23596	53964	A	23731	999	1145	
23597	53965	A	23732	1084	1893	

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23598	53966	A	23733	1605	2296	HSIHSSVDHPENRIYRRKIEELS KRFTAIRKTKGDGNCFYRALAAI PYLESLLGKSREIFKFKERVLTQ PNDLLAAGFEEHKFRNFFNALR AGRAQFYSVVELVEKDGSVSSL LKVFNDPGASDHIVQFLR/LCF TSAFIRNRADFFRHFIDEEMDIK DFCTHEVEPMATECDHIQMTA LLQALSIALQVEYVDGWIPALT QHVFLAATPSVYMLYKTSQY NILYAADKH
23599	53967	A	23734	529	1830	AGYGDRTMLARKSIIEEYVLA RIAENLRKPRIRDRLPKARFIA KSGACNALAHKNIREQGRFLQDI FTTLVDLKWRTLVIFTMSFLC SWLLFAMWWLVAFAGHDIYA YMEKSGMEKSGLESTVCTNV RSFTSAFLFSIEVQVTIGFGGRM MTEECPLAITVLILQINVLITNA VMLGICFMKTAQAHRRAETLIF SRHAVIAVRNGKLCFMRVGD LRKSMIISASVRQIVVKKTTTPE GEVVPQHLDIPVDNPESNNIFL VAPLIICHVIDKRSPLYDISATDL ANQDLEVIVILEGVVETTGITTO ARTSYIAEEIQWGHFVSIVTTEE EGVYSVDYSKFGNTVKVAAPR CSARELDEKPLPSLFRPSQKSEL SHQNSLRKRNSHRRNNFHRRN NSIRRNNSSLMVPKVQFMTPTE GNQNTSES
23600	53968	A	23735	968	1243	
23601	53969	A	23736	541	1010	SVTSLCKVTSVCLTSAASCRH RRSVEEYLVSKLPM/WSRRRK AAALTESV/CIVFWLASWMMMS RWLHYPDWVTTHAQVLMNVV SVMQADCRMNLLIEFLRWLMR KIFHNILRHFSQLLNVPITRPF WILRPF
23602	53970	A	23737	766	1910	LLTARLTWVSARLMSYVLLMC *LFPRLLSCLTTPPHCSFSICFVI CSRTLILKGSSLMYVFCPLPNTAI GGSSRVDRCAATSRGSSRVDL TL*KYSLVGSPVLVSSV**SDW PLKLLMTMMS

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23603	53971	A	23738	581	1434	KLPMGVAVVKLLHLHPKVIIVFW LASWMMSRWLHYPDVWVTHAQ QVLMNVVSMQADCRMNLLEI FLRWLMRRASDICSSIHGD*EPL L/YAVFGKQNTYIRLEPFKINV EQITKHIEKLQCGGVVKQLSRR GNNQHISSTYDINRADTQVRR VNNYDIIVMSNSFNGQSEHQV WIDRKAGECLLHEYEDLVPIRD TLRLFPGGRYLPRAKHVAPSEP DPEQDEQLRFCKRHLYGKQP RSPVERVWDHGPTRIVGLIISLG PRSHSYRRSDNQTGTTVPLVSS
23604	53972	A	23739	515	774	LFPRLLSCLTTPPHCSFICFVIC SRTLILKGSSLMYVFCLPNTAIS GTTVPLVSSV*LLVWDHGPTRI VGLIIRLGPRSHSYRRS
23605	53973	A	23740	322	763	CRMC*LFPRLLSCLTTPPHCSFSI CFVICSRRTLILKGSSLMYVFCLP NTAIVMALSPRGWRSKFGMPV EDTSLSTPAAPMVDSLIARVGV MARGNAITLPGCGRDVKSITL VLRGDSVEKTSRVVWSGNERDQ ELLTEDALDDL
23606	53974	A	23741	1	127	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEK*RRL SPLHSLMMTARKRGK*PGAGE
23607	53975	A	23742	9	437	WLGLGNWKERLGTQTRMIWS QKTARRLCRTFGIPAYSMCI/CI GMAERMWCDNRNRERTVSSG GNRLPNPDWAPGPPRIVGLNIS LGPTVPTRIVGLIISLGPRSHSYR RSDNQGTGTTVTRIVGLILVLGP WSHSYRRSDY
23608	53976	A	23743	766	767	LUTARLTWVSARLMSYVLLMC *LFPRLLSCLTTPPHCSFICFVI CSRTLILKGSSLMYVFCLPNTAI GGSSRVDRCAATSRGSSRVDL TL*KYSLVGPSVPLVSSV**SDW PLKLLMTMMS
23609	53977	A	23744	573	1085	VCHQILTHLPALLSGARMWWD QLWRGRP*RRCCQPCCGG*WH CFWATAHHSPLDSTLNLHLCLP RGP
23610	53978	A	23745	2	379	WLTRSSCSWRLPPRRKKKGAL V*PVWLPGGVAVLLQLGCCV LQDVSCCKRLCYNRKQSEIVL MS*ITMWKLFPRPPLPFSTCIC *KTCGKGRSK*KVDILVLSIRF SAIKLEPLDCHENAWL

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23611	53979	A	23746	575	576	TGIDSDQLNGRDWRRALSVSPA PDSGFPRCNGDEQAGI*LLGTG WAEKCHRLAFPPAGSTAGR
23612	53980	A	23747	1	723	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHMDMEIRGRVEQRVGYTIEQI NHMRDVFGRRLRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVCSWKEPPGNSL NVSRMVWDHDPTRVVGIIIGL GPRSHLYCRSDYQQRSTSVCG CMPAVDCCCVLLIHNILRTVM WTKYLVTOAVPAR*PGCIRCKC
23613	53981	A	23748	1	1101	
23614	53982	A	23749	5	205	YCSSLSTFAAITSRAFLPDRRITT PPATSPSPFSSAMPRRISGPWTF ATRRR*TGTFPSLAFKTM
23615	53983	A	23750	1	761	
23616	53984	B	23751	56	2188	
23617	53985	A	23752	627	1272	
23618	53986	A	23753	448	2218	VRRQRSDPERSDARMVRFCLN YI*RKNPFILH*LFR*TLRQTKPD NSAGKCVKI
23619	53987	A	23754	171	959	AASRGPDAPGLEMAGNCSWEA HPGNRNKMCPLSEAPELYRR GFLTIEQIAMLPPAVMNYIFLL LCLCGLVGNGLVLWFFGFSIKR NPFSIYFLHLASADVGYLFSKA LFSILNTGGFMGTADYIRSVCR VLGLCMLLTGVLLMPAGWDE RGVRSEAWCTVETGRVHRSR VRVSRNTARDPANGLGHLQSS LGMPALEPGPTLGSALRWEFLQ TASPQLPVQPLHPAAA TPQPSL RGRGRGPKARALGLGPRSTSYR
23620	53988	A	23755	664	838	
23621	53989	A	23756	2732	3007	
23622	53990	A	23757	1522	1706	CHYFACMWSGCEVYS*SAPG** C*EDLSGLVRCRCLHNSAETPI* FAANADTSPRGFLCR
23623	53991	A	23758	537	795	ADCLPHMGRPCLID*GPCRTE*P RCAVVCLLWIAAVSCLSTT/SLR TG/DGPKYLVTQAVPARYPGCI RCKCVAVDELASSDMRLPCS
23624	53992	A	23759	2074	2276	
23625	53993	A	23760	36	206	ECWIWCELGAELHHQP*ASSH WKSSYRQSSSLPRCRASQRTLH LLQGWAVLGPLE
23626	53994	A	23761	444	725	
23627	53995	B	23762	1	1212	

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23628	53996	A	23763	11	972	RFSKSLD SGVQLASPSGSRGTG ATGGAHSPARAPALHSPWAV DGTRGRLAGTAGLWSPRAFHF FKVSLSLPFCVSPFPFPGPLGPS PRKHQMADDAGAGVGGRRPR GPRMG/NRGGFRRGFGSGIRHQ GCGCGQGQGGQGRGVGGGKAE YKEWMTVTKLGHVLKDIKIS LEEIVLFSFFKTSLSLKDEVLKI MLVQKQTHTSQCTRFKAFVAT GDYNGHISLGKCSKEVATAIC GAILAKLSIVPACRGYWGNIKIS KPHITPCKVAGCCGSLVCLIS VPRGTGIVLAPCEGDRGLRKSS PASLSPECKDGGSHRSF
23629	53997	A	23764	2	260	LLEECRSLRSRCDQLEERVSA EDEMNEK*EGKFREKRISPKR APERSAKHGKQPVPAAKKSC QNVNTIETRKKLHLQTSKITS
23630	53998	A	23765	3	1150	
23631	53999	A	23766	1	1521	
23632	54000	A	23767	1	753	
23633	54001	A	23768	1	3351	
23634	54002	A	23769	1	1740	
23635	54003	A	23770	1	1353	
23636	54004	A	23771	1	1932	
23637	54005	A	23772	1	1221	
23638	54006	A	23773	1	1214	MAKKQNRKTGNSKKQRASPPP KECSSSPATEENWTENDFDEL EEGFRQSNYSELWEDIQTKGKE VENFEKTL EECITRITNTEKCLK ELMELKTKAQELRKECRSLRSR CDQQQERASVLEVLVAR/QL GRKRK*RVFN*EKRSNCPCLO TT*LYI*KTPLSQPKISLS**ATS AKSQDTKSMYKNHKHSYPTTT DKQRAKS*VNSHSQLLQRE*NT *ESNLQES*NWISSHLHIQKSIQD GLKT*TLDLKPSKP*KKT*ALPF RT*A WARTSCLKHQKQWQQRT KLTNWI*LN*RASA/PAKESTV/S SEQATYNMGENFHNLLI*QRAN IQNLQ*QTNLQEKKNQPHQKV GEGHQQTLLKRRHLCSQKTHE KMSIITGHQRNANQNHNIPSH TSYNGNH

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23639	54007	A	23774	1157	2085	QGRPTDFADFGTTIKQDFRLIG QTSVDRLLQLSQGQAVKGNQL LPVSLVKRKTLPNTQTASPR ALADSLIAAGTTGFTGKRAVS ATQLMTQFSPAREQSWRN/DF DELRKE/GFARSNYSKCLKEL MELKTKARELREECRLSRCD QLEERVAMEDEMNMKREG KFREKRIKRNESLQEIWDYVK RPNLRLIGVPESDAENGTKLEN TLQDIHQENFNLARQANVQIQE IQRTSQRYSSRRATPRHIVRFT KVEMKENMLRAAREKGWVTL KGGPRLTADLVAETLQARRE WGPIFEFP
23640	54008	A	23775	1	1707	
23641	54009	A	23776	1	1899	
23642	54010	A	23777	1	2781	
23643	54011	A	23778	1	831	
23644	54012	A	23779	1	3264	
23645	54013	A	23780	1	882	
23646	54014	A	23781	1	1853	
23647	54015	A	23782	1	550	
23648	54016	A	23783	1	831	
23649	54017	B	23784	64	3436	
23650	54018	A	23785	1	1422	
23651	54019	A	23786	1	773	MGKKQSRKTGNSKKQSATPPP KERSSSPATEQSWTENDFDEL EEGFRRSNYSLEQETQTKGRE VENFEKNLDECITRTNTEKCL KELMELKAKAWELREECRLSR SRCNQLEERVSVMEDEMNMK REGKFREKRIKRNESQPVIRD YVKRPNLRLIGVPESDGKNGTK LENTLQDIHQENFNLARQANI QIQEIPRTS/QRYSSSEHSIIGLIGR FPS*RTDMFRAPKKREQKRNRR KIQKEEGGRTAPTGI
23652	54020	A	23787	1	2775	
23653	54021	A	23788	1	2712	
23654	54022	A	23789	1	1590	
23655	54023	A	23790	1	547	MGKKQNRKTGNSKKQSASPPP KECSSSPATEQSWTENDFDEL EEGFRRSNYSLEREDIQTGKGE VENFEKNLEECITRTNTEKCLK ELMELKTKARELREECRLSSR CNQLEERVAMEDEMNMKE D/GNRYDDRRQ/RKEEIMKSW RFCCRHLIRVVRGWGPSKYLWI TMVVTLAGNPQ
23656	54024	A	23791	1	710	

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23657	54025	A	23792	1	895	
23658	54026	A	23793	1	1938	
23659	54027	A	23794	1	1413	
23660	54028	A	23795	985	1219	LCSGVSVERCTESYLHSSHCLVQ QAGVTGDEGGSCY*DPPSHHRS HPRKLLKLC EQEFSVTSAPWRK CRSLHGRFPGLP
23661	54029	A	23796	1	3570	
23662	54030	A	23797	1	634	
23663	54031	A	23798	1	4551	
23664	54032	A	23799	1	4721	MHPSQRTPYQSRSPATIFATVST FKSHKSNLETKHPQQVPLSSLG LAANISSEIESEAEDNGKWES VDRTSFFPALTSFQQSMHKKI MTVFKSV EPEDGLGRPTLAFHE DRCQLSIQNSLDAGGGCPSMA APPAEVHELASGLISAAAALLSP AASGRVSKHQHIPTGFPDPPKA LHKGKLTTRKDIYTENPSVHHH HQRPKVDKTTKMGKKQNRKT GNSKTQSASPPPKC SSSPATEQ SWMENDFDELREE

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23665	54033	A	23800	I	2152	MDILGWASRAHKWKGRATGT HVFNLMEYLIISLQCCASEQAA SPEHGASFRVWKSGLGFQKLILS LICPQCLQSLTRETWMRFKSKK TKGPDRLRLVMDANKWEFRRH ALRPALTFPNEGDDLVEALPV ALPPEAHVGGVVLPAALVRGA HGEQLPAIPGPEEFALPAVQAR AARPERQVVVIVVNEAGVDP GVEGLAPVPVLPVGRLEATAPK QPPRLPARLRAPLPSGRKLNAK CPRLRWGFFVQDGDGTCLACL SEGDDGCCQEAPLDHRPRLRG LAGSAGAREAREPRLRPGDWG NRIARVRAPEEAAAALSRPARV AAALAKTHRREHRARSQKLV SSVQQKLTTRKDIYTENPSVH HHHQRPKVDKTTKMGKKQNR KTGNSKKQSAFPPPKCASSPA MEQWTWDNDFDELREGEFRGS NYSELREDIQTGKEVENFEKD LEECITRITNTEKCLKERMELKT KARELREECRLRSRCDQLEER VSAMEDEMNMKREGFKREK RIKRNEQSLQEIWDYVKRPNLR LIGVPESDVENGKLENTLQDII QENFPNLAQANVQIQEIERMP QRYSSRRATPRHIVRFTKVEM KEKMLRAAREKGRVTLKGGPI RLTAVLSAETLQARREWGPIN ILKEKNFQPRISYPAKLSFISEGE IKYFIEKQMLRDFVTTTRPALKE
23666	54034	A	23801	I	2109	

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23667	54035	A	23802	1	2544	MSVHSWKPSWIRPIRSLSPKRPL GTQGTSEVPPDTHICQTKFHSL SGPLLLSVHPVGKLSAVVGRVF IHILSQRRRRRVISAFPSEVPG SSHQGVPSGGRSVGAHPVREP KQGEALPHSGSPREGKLTNRKD IHTKNPSVHHHHQRPKVDKTT KIGKKQNRKTGNSKTQSASPPP KECSSPATEQSWMENDEFLR EEGFRQSNYSELRKDIQTKGKE VENFEKNLEECKTRITNTEKCL KELMELKTKARELCEECRSLRS RCNQLEERVSVMEDEMNMK REGKFREKIRIKRNEQSLQEIWD YVKRPNRLIGVPESDVENGTK LENTLQDIIQENFPNLARQANV QIQEIQRTPQRYSSRRATPRHIIV RFTKVEMKEKMLRAAREKDRS TRQKVNKDTQELNSALHQADL IDIYRTLHPKSTEYTFFSAPHHT YSKIDHIVGSKALLSKCKRTEII TNYLSDIISAIKLELRINKLTQSR STTWKLNLLNLDYVWHNEM KAEIKMFFETNENKDDTTYQNL WDALKAVCRGKFIALNAHKGK QERSEIDTLTSQLELEKQEQT HSKASRRQEITKIRAELEKETQ KTLQKINESRSWFFERINKIDRP LARLIKKKREKNQIDTIKNDKG DITTDPTIEIQTIREYYKHYAN KLENLEEMDTFLDYTLPRLNQ EEVESLNRPIGTGSEIVAINSLPT

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23668	54036	A	23803	1	1886	MKENFKHRHVAVFISSQEAQE DSREEDRLERSFYFLFLELSY KTTGLNREPTVSLNSKSGTPMD QNEHSHWGPAAKGQACASSEL RIILVGKTGTGKSAAGNSILRKQ AFESKLGSQLTKTKCSKQGSW GNREIVIIDTPDMFSWKDHCEA LYKEVQRCYLLSAPGPHVLLLV TQLGRYTSQDQQAQQRVKEIF GEDAMGHTIVLFTHKEDLNGG SLMDYMHDSNKAISKLVAA CGGRICAFNNRAEGSNQDDQV KELMDCIEDLLMEKNGDHYTN GLYSLIQRSKCGPVGSDERVKE FKQSLIKYMETQRSYALAEAN CLKGALIKTQLPKVDKTTKIGK KQSRKTGNSKKQSTSPPKERS SSPAMEQSWTENDFDELREEGF RRSHYSELPEDIQTEGREVENFE KSLEECITRITHTEKCLKELMEL KTKARELREECRLRSQCQDQLE ERVSAEMEDEMNMKREGKFKE KRIKRNEQSLQEIWDYVKRPN LRLIGVPESDAENGTKLENTLQ DRIQENFPNLAQRANGFCRFRN HHQTGFSPAGANQRGPLAATLS GPGGEGQSAVARLTGEKKNHP GAQYANRLSPRVGRFINRSWH DRFPDWKAGTGLKSAIFAW
23669	54037	A	23804	1	4134	
23670	54038	A	23805	1815	1849	

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23671	54039	A	23806	1	4016	MGKKQNRKTKGNSIKTQSAFFP PKECSSSPATEQSWMENDFDKL REEGFRRSNYSERLADIQTGKG EVENFEKINLEECITRITNTEKC LKELMELKTKGSRNYVKECR/S LRSRCDQLEERVSADEDMNE MK*EGKFREKRIKRNQSLQEI WDYVKRPNLRPIGVSESDGEN GKLENTLQDIIPENFPNLRQA NVQIQEIQRTPQRYSSRRATPRH ILVRFTKVEMKEKMLRAAREK GQVTLKGKPIRLTADLSAETLQ ARREWGPINILKEKNFQPRISY PAKLSFISEGEIKYFIDKQMLRD FVTTTRPALKELLKESLNMERNN WTSKQIIQEDGYSEEGWLCRA VIYSHTLQAIMAIVKATGNLQT DFANPFHTDDARQQFAMSYTV VGQGALPEDLSRCHLQTEAVQ RHPESLGCPLDLLHGMPVSSCF GYPQDTSSTV
23672	54040	A	23807	2059	3153	
23673	54041	A	23808	6	188	
23674	54042	A	23809	3	1014	VACRPLPRRRAQPATFIPRVAV KMALVASVRVPARVLLRAGAR LPGAAGFRTERAAGGGDGA/RP VFGSQRVLVEPDAGAGVAVMK FKNPPVNSLSLEFLTELVISLEK LENDKSFDRDILTSD/RPGVFSA GLDLTEMCGRSPAHYAWVLE RPVQELWLRLYQSQ/LVLSAI NGAICPAGGICLVALTCDYTILA AGNPRYICIGLNETQLGIIAPF WLKDNPWRTPIGHRAAESALQ LGLPLPPAEALQVGIVDQ/VVP VEEQVQSTALSAIAQWMAIPKP MAHKLTAKIMRKGGQPPAWS RKGYADVQNFVFSISKDSIQKS LQMYLERLKEEK

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23675	54043	A	23810	1	2665	MTTSIRQFTSSSIKSSGLGGG SSRTSCQLSGGLGAGSCRPGSA GGLGSLGSSSYSSCYSGSGG GYGSSSFEGVDGLLVGGEKAT MQNLNDRLASYLDKVRALEEA DTELVKIRDWYQRQAPGPAR DYSQYYRIIEELQNKPPPSDDL TLPSPLILATVDNANILLQNDN AHLAAADFRTKFETEALCLSV EADINGPCRVLDELTLARADPE MHLENLKEELAYLKKNHEEMN APRGQVGGELNVEMGAAPGVD LSRILNEMREQYEKMAEKNRK DAEDWFFSKTEELNREVA TNSE LVQSGKSEISELRCTMQALEIEL QSQLSMKASLEGNAETENRY CMQLSQIQLIGSVVEERLAQLL CEMEQQNQEYKILLDMKMRLE LEITTYHRLLEGEAQTVQHTP GSPCVPEWAHDCSLPAQLDE WSCQAQRGICGHRRENCWERIP SQSCFYRPTARSLTSLGTMST CSHQFTSSSRSMKGSIGGSIGG GSSRISSVLAGGSCHAPSTYGG ASCGLGGGYGGGFGSSSSFASG FGGGYGGGLGAGFGGGLGAGL GGGFAGGDGLLVGSEKVTMQH LGDRLASYLDKVRALEEANAD LEVKIRDWYQRQRPSEIKDYSP YFKTIEDLRHKIIAATIENAQPIL QIDNARLAADDFRTNYEHELAL QQTVEAGVNGLCREMLALRGQ
23676	54044	A	23811	222	548	TLPCGDHHHSQDPARLPSWHD LLQERSEKCGSQDWQRDSVQP GVSYQFCCVPWPAGRSQPQRH CWGCCGTEASYDSGI*SLSTPG GGQLQGSV*GPDGAGLQNSHR
23677	54045	A	23812	2	165	
23678	54046	A	23813	1	665	
23679	54047	B	23814	1	1673	

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23680	54048	A	23815	1	331	ARQLRTSAMTMPVNGAHKDA DLWSSHDKMLAQPLKDSVVEV YNIKKESNRQRVGLEIASENF ASRAVLEALGSLNNKYSEGYP GQRYYYGGTEFIDELETLCKQRA LQAYKLDPQCQWGVNVQPYSGS PANFAVYTALVEPHGRIMGLDL PDGGHLTHGFMTDKKKISATSI FFESMPYKVNPDGTGYINYDQLE ENARLFHPKLIAGTSCYSRNI.E YARLRKIADENGAYLMADMA HISGLVAAAGVVPSPFEHCHVVT TTTHKTLRGCRAGMIFYRKGV KSVDPKTKKEILYNLESLINSV FPGLQGPHNHAIAGVAVALK QAMTLEFKVYQHQQVANCRA LSEALTELGKYKIVTGGG/CVISG GAGKPG*FSHQDGTGTSQDGG RRPFLHHTLSY
23681	54049	A	23816	3	1709	SHPTPRETPGTGVEGQATPSVLG AAPASQAKATPTLGRPHASDR GEVAQLDEWSCQAQRGICGHR RENCWERIPSQSCFYRPTARSLT SLLTGMTSTCSHQFTSSSRMKGS CSIGGSIGGSSRISSVLAGGSC HAPSTY/GGGGLCVSFSRFSFGGA CGLGGGYGGGFGSSTNFWS\GF GGGYGAGLGAGFGGGLGAGL GGGFAGGDGLLVGSEKVTMQH LGDRLASYLDKVRALLEANAD LEVKIRDWYQORQPSEIKDYSP YFKTIEDLRHKIIAATIENAQPIL QIDNARLAADDFRTKYEH.EI.A LRQTVEADVNGLRRVLDELTL ARTDLEMQIEGLKEELAYLRKN HEEEMLALRGQTGGDVNVEM DAAPGVDL SRLNEMRDQYEQ MAEKNRRDAETWFLSKTEELN KEVASNSELVQSSRSSEVTELR VLQGLEIEIQSLSMKASLENQ I\VEETKGRYCMQLSIIQGLIGSV EEIQLAQLRCMEQSQSQEYQIL LDVKTRLEQKYCHPTAALLEG EDAHLSSSQASGQSYSSREVFT SSSSSSSRQTRPILKEQSSSSFSQ
23682	54050	A	23817	2	365	

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23683	54051	A	23818	1	464	RRWRICSTWTRSFATAWLPPAP SANFPRTRDSQGRGAPAGFAL APILEFFLWDTSSQKFLQKPHCF MHGRERAKMGRRAQQESAQA ENHLNGKNSSLTLTGSETSAKL PRCR/QGGWAGDSVKASKFRR KASEIEIDFRLRPQSLNGSDYG GDIP
23684	54052	A	23819	384	805	
23685	54053	A	23820	3	392	MKYSAIQTL DGEIDLKLLTKVL APEHEVR*VQWWQFPGLSTL AIPINPAELPGLALCLP*RPWNG REKVSLLQREKALSLSYPAKPF LAEDDVGWWDHLEFTEVSSEV LTEWDPLQTEKEDPAGQARHT
23686	54054	A	23821	63	785	GPIRGPGWPGFGGWGGATPPAP TSRLRLRAAGLAPRRRAKMGR RAQESAQAENHLNGKNSSLT LTGETSSAKLPRCRQGGWAGD SVKASKFRRKASEIEIDFRLRP QSLNGSDYGGDIPINPDLEEVQ EEDFVLQVLAAPSIQIKRVMT YRDL/DNDLMKYSAIQTL DGE D/IDLKLLTQK/VLAPEHEVRER NPSWQDDVGLGTWGPICSTEV SLRRSFTEWDPLQTEKEDPGG QARHT
23687	54055	A	23822	1	441	MSFNCSTRNCSSRPIGGRCIVPV AQVTTTSTTDADCLGGICLPSSF QTGSWLLDHCQETC/CGCQPLG GISSVCQPVGGISTVCQPVGGV STVCQACGVSRITYQQSCVSSC RRIPAKCVGASERIKTPRPASCF QDLPAACLSLNSSS
23688	54056	A	23823	1	538	PTRPLQQAATCSPLSDIMSFNCST RNCSSRPIGGRCIVPVAQVTTTS TTDADCLGGICLPSSFQTGSWL LDHCQETCCEPTACQPTCYRRT SCVSNPCQVTCRQTTCISNPCS TPTAGRSP/CVSSGSQPLGGISS VCQPVGGISTVCQPVGGVSTVC QPACGVSRITYQQSCVSSCRRTC

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23689	54057	A	23824	832	1885	AEWDAADKAHVGPGRSPRQPL PHVGRRAAHTTGRGRRTAGC APAPARTLCILSILGPWCVLPHL PTLCLGQAQAASCSQGAHGCF AGCSCT/GTSASHPV/CCKCPLH PVCITLADVHGCITSGFSVISLPQ TCAPWTSWRKWSLSDSWQVD ACPESCCEPPCCATSCCAPAPCL TLVCTPVSCVSSPCCQAACEPS CQSGCTSSCTPSCCQSSCQPA CCTSSPCCQACCVPCCKPVCC VPVCCPKPVCKPICCVPVCSGA SSSCCQSSRQPACTTSCCRPS SSVSLLCRPVCRSTCCVPISCC APASTCQPSCCRASCVSLLCRP TCSRLSSACCGLSSGQKSSC
23690	54058	A	23825	1	3097	MDEKRTRIQFEEADVPAYPKV ATVPQSEKKPSKYPLCSADAAV STTPPGSPPPPPPLPEPPVLKVL SLKPAAPSPATAATTAATASTA ASSTASSASKTASPLEHILQTLF GKKKSFDPSAREPPGSTAGLPQ EPKTTAEDGVAPPLLDPIVQQF GQFSKDKALEEEEDDRPYDPEE EYDPERAFDTQLVERGRRHEVE RAPEAAA AEREVEA YDPEDETI LEEAKVTVDLPLNRMCAVRR NSVERPAEPVA
23691	54059	A	23826	67	442	VKFFCLYLQSNKPMKNFKQG SNNQLLMRSFWLLCGIDYKKPP PPPAPGPESVAPALSGPPPAHS RGPRAVVRA/PPPPGPRHSPA PPPPGTPEPSVATYSIKASKRVS QQDRCHNLKMSQE
23692	54060	A	23827	3	657	GERSRRWGPACGPGAAEKTTP CDAGAAGAAPGAPGHAGNPL GSGPDYD/GEATCMHLHPDDPC PAGAGCCPGSFEVAFPDAAEK MKKSLHSLKKGCYSRVCDLPL DCPGCDSDSGRQAMFSCIVNFQ LPKEESPIPGSQEESGPSHSEC DSVGVDWRGQRVSRKQLQAPNH SLVLLVTSLFQETTKSHLNRTN DAVSPRKFKRLGALYWGKVEA
23693	54061	A	23828	141	246	
23694	54062	A	23829	1	609	
23695	54063	A	23830	1619	1752	

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23696	54064	A	23831	54	470	CSTMNPSEMQRAPRRQRHRS RAPSAHKMNRMMVMSEEQMKL PSTKKAEPPTWAQLKKLTLA KKKVLNTKVTQTPENMLLAAL KTVSTVSAGVPSSESDHRR AMMTTVVLSKRRGKCGEKKEI SDCYCVYVERS
23697	54065	A	23832	213	572	IQWYPYQDITDFLHRIRKNFFKF HMEPKKSLHCQDNPKPKQSW MHHTT*LQTMLQGYSNQKRMP PHLGSEERLCPAAPSGR*GAPLP GRCAIFQV*SDLSAGVPSSEE TATIENG
23698	54066	A	23833	296	583	
23699	54067	A	23834	2452	4557	
23700	54068	A	23835	3	266	
23701	54069	A	23836	31	499	ARVTAAVSAAAVAKRVWRDG FDCSGYYSLTILLVQPTKRP GRTYADYESVNECMEGVCKM YEEHLK\RMNPNNGPSI/THNTTS QLDFDID\DLADLSCLVYRA\DT QTY\QPYN\KD\WKDEDPTVLLS SGKAQQAREIIVVGSWHGGWG GAWDTGV
23702	54070	A	23837	3	323	
23703	54071	A	23838	366	892	PCVYSQFPAGEQCLKLHSPA SPPALEASEAQTRKAPECGSGV PEVAGGSCPCLLCLPRHQAVP TQGPPTYSPCTSHQPHIFRPAA PHHLGLLQNPNAASCIQCLYP AGVATTMPRRKAEGDAEGD/K AKVKDEPQRRPAKLSAKPAPPN PEAKPKNAPGVTLRLGTATRF

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23704	54072	A	23839	201	1412	LWKSRLTFKLAMSRVSPPPPA EMSSGPAESWCYTQIKVVKF SYMWDPSITLAFCREEMGEVI KSSTFSSGANDKLLWCLRVNP KG\LDDESKDYLVTFTCYLVSC\ PKSEVRANFKFSILNAKGEETK AMESQRAYRFVQKDWGFKK FIRDFLLDEANGLALPDDKLT FCEVSVVQDSVNISSQNTMM VKVPECLADELRGLWENSIRF TDCCLCVAGHEFQAHKAILAA RSPVFSAMFEHEMEESKKNPSL KSMDEVPEVFKE\MMCFIYTG KAPNLTKMA\NDLLAAADKYA L\ERLKV\CEDALCSNPV\SVEN AAEIL\ADLH\SADQLKTQAV DFINYHA\GDVLETSGWKSMVL SHP\HNLVAEAYRSLASKQCPF LGPTQNALKQSLKILLCC
23705	54073	A	23840	1	575	FRHRKIY*NLKQEDSINVTEM TSIRASVDILIPDPKDDMDT DKQEKKEVPKCGFLPGNEKVL SLLAMVKPEVWTLKEKCIIVIT WQHLIPKIEDGNDGFAIQEK VLERVNAVTKVEAFQTTIS/K MDYRALVHERDEAAYGELRA MVLDLRAFYAELYHISSNLEKI VNPKGEEKPLMYPTRD
23706	54074	A	23841	1	1092	
23707	54075	A	23842	130	397	EGVHSQVNLFPKIGNQTHVPAS HGTDALPPTLQMDYRALVHE PD*AAYGELRAMVLDLRAFYA ELYHISSNLEKIVNPKGEEKPF
23708	54076	A	23843	20	334	VRLPGSTHAGGDRSSMAKPCG VRLSGEARIQVEVLRLNQLFQEA NEEFLYRFLPQKIYLNQLLQEDS LNVADLTSLRAPLDMPIPPPP KDDMETDEQEKKEGK

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23709	54077	A	23844	1	898	MKQKVAAEAGRGQILQAKVLP SGTL SRLAEALFGVQTYDQDA YGF LTPSAQSMKVFCCLWKL V CKQLEGDVAQGLAIDGDVKKH SGLEWQVETIQNLVDSYMAIV NKNMQDLMPTIHLMINNTKE FIFSELLANLYSRGEQNTLMGE SAEQAQGRNEMRRMHVLR APSIIGDIKTIVSTPTGSPKSSPT TQCRLPAVPPAPRGLRSPAPGPL PAASTLGEAPVVPSTPGASPDPL GPPPVQPSRPSRGQPQDRMP GLAGDLTVGFLEPTLQAIIRWS LLLRPPANSPEQS
23710	54078	A	23845	99	429	FSDAAAVARQPSFGKALGAPQ ADTQPTSPMPRCPPGSETKPK KAAGKDKSSDKKNKTKKQMK AEKGGKEKQAEVADQETKDL AENGDTENKESPASDEATEKDT KSD
23711	54079	A	23846	1	390	TWMFIAAVFRIASTWKQPRYFS VGKQDQKRTSRKLQQTCSRGA *WLEGLTNRKE*HQYQRKGH PRKNTIQRSP LKTKANILNGQ KLEAFPLKTGTRQRCPLSPLFN MVLVLARSIRQEKEIKVFK
23712	54080	A	23847	522	733	ASAADTQANRVWSGPP/RKLQ QTCS*GS*LLQGKLTNRKDIHT KTPSVHHHHQRPKTLNQQRSK ETKKAIT
23713	54081	A	23848	46	330	
23714	54082	A	23849	1	873	MAEKDPTKEPEKKHLLAWM NKLLEYLDPKYKNDNTDGS VVHKIIACDKVSPPPSAMIGSF PRPSSEADAGAMLCVQPARTKI LGILGLKATSLQYLRLHTGKPL LPKIDESTKMG RNQPKKAENSK NQNASPPKDHNSPVREQNR MQNEFDELTEVGFRDRSSKR NSVVIKALPRHLINQGRSQEWR LGIGARDSPKTSGRRGKSPAGP NRTTVPEDEQA/GSRPRPIPTRQ ADPRTPPTRSEKE/AQLSLATD QMCPSLAPLIK*PQES**WKQRI SI*MEHL
23715	54083	A	23850	1075	1350	AJITANVFKFVSDIRGLVCNMEL EGSNCFIDVCSWTSEMKS KGT RR*KIT*GNSSGSLPRDTQRSGH RNSSLCCERSKYGGSRVDIRRK VF

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23716	54084	A	23851	1	956	MEVLARVFRQEKEMKGIHIGK EEHKLFLFADNMTLCLLEKTKDS VKKLVEQPSSFGSVDWLCLSSC SGSTHTPRPADVSPGSLPGPGQ TFGTREPPQAVSTKEASSNLH APERTVAGLFTTEQVRALEGV FRHHQYLGPLERNWLAREMQL SEVQIKTWQFQNRMRKHKRQM QDSQLNGPLSGSLHGPPAFHSP SSGLANGLQLLCPWAPLPGLS/L WLPGLGSFWLQMDQEAALASS WASCCGQPLAYHPPRPGSGAH KLGPALSTGPRGLCALPETGDA FEETPTTCLPHKRSVPQIASDAY PEDSAVLFTSWRHLS
23717	54085	A	23852	1	846	MEAFDANYTFQSGPSAAGLLV FAGGPLQALCAWVSAVEAAEQ WILQPSSFGSVDWLCLSSCSGST HTPRPADVSPGSLPGPGQTFTGT REPPQAVSTKEASSNLHAPER TVAGLFTTEQVRALEGVFRHH QYLGPLERNWLAREMQLSEVQ IKTWQNRMRKHKRQMDSQ LNGPLMGSPGAPWLSTHIFLA LAKGLQLLCPWA\PLPGSPGCP LGSFWGTP/QMDQEAALASSWA GCCGQPLAYHPPRPGSGIDLPK GTQLSLRLFQDISSTRGDHRS
23718	54086	A	23853	3	239	
23719	54087	A	23854	10	1154	RRAGFGGVRASGAMGTTPGLQ TDCEALLSRFQETDSVRFEFT ELWRNMKFGTIFCGMRN\LEK NMFTKEALALAWRYFLPPYTF QIRVGALYLLYGLYNTQLCQPK QKIRVALKDWDEVLFQQDLV NAQHFAAYIFRKLRLDRAHFH TAMPKLLSYRMKKKIHRAEVT EEFKDPSDRVMKLITSDVLEEM LNVHDHYQNMKHVISVDKSKP DKALSLIKDDFFDNKNIVLEHQ QWHKDRKNPSLKSKTNDGEEK MEGNSQETERCERAESEKIKS KA\FSVVIQASKSRHRHQVKLD SSPLDSASGGQVKATRKKEK KERLKPAGRKMSLRNKGNVQN IHKEDKPLSI.SMPVITEEEENES LSGTEFTASKRRQH

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23720	54088	A	23855	16	447	VNCDKANCSTTCFNGGTCFYF GKICPPGLEGEQCEISKCPQPC RNGGKICIGKSKSVCEPGCGAH GTCHPEPNKCQCQEGWHGRHCN KRYEASLIHALRPAGAQLRQH TPSLKKAEERGDPPESNYIWVE LPTSGNVLSYTKFI
23721	54089	B	23856	103	1989	
23722	54090	A	23857	3	1295	SGRGVSRHMADYLISGGTGYV PEDGLTAQQLFTGAAARDRLT YNNFLILPGFIDFIADKVDLTSA LTWKITLKMPLISSPMDAVTEA DMAIAMALMGGIGFIHHCTPE FQANEVRKVKKFERGFIMDPV VLSPSHTVG/DVLEGMKMRHGF G/NPITETGTMGSKLDSHKQLLC GAAVGTREDDKYRLDLLTQVG VDVIVLDLSQGNLSYQMAMVY YIKQKYPHLQVIGGNMVTAAQ AKNLIDAGVEGLHVGMGCSIC ITQEVMAYSWPQGTAVYKVAE YARHFDHGEHGKALALGASTV MMGSLAATTEVPSPKYFFSDG VWLKKYRGMGSLDALEKSSGS QKQYFMEGDKLKIAQGVSSSIQ DKGSIQKFVSYLIAIGIQHGCQD TGVCNLSVLLSMMYSGERKFE KWTMLAQIKGGVQGLHSYKK
23723	54091	A	23858	770	1008	LAPSPCVRSKGRKESPDSSR/RPL WLRPIAPALGPSRRGLAPDSR LNPHRSLLGTGNVDVNVIMAA LQGLGLAAVWWDRRR

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23724	54092	A	23859	1	1489	MTRWSSYLLGWTTFLLYSYESS GGMHEECVFPFTYKGSVYFTCT HIHLSLPWCATRAVYNGQWKY CQSEDYPRCIFPIYRGKAYNSC ISQGSFLGSLWCSVTSVFDEKQ QWKFCETNEYGGNSLRKPCIFP SIYRNNVVSDCMEDESINKLWC PTTENMDKDGKWSFCADTSNL GMGVGPTPRHHRRASTRHSRPP PADPDGGERPRTADDRQDDA TEDDGTRCRGRQTRTQATNAN ANHKKSNRTKPPRHKPNKAK RHTKKETPQNT/CGTDKNPDS GRPKLFRACITSTGTGRELWT RSREHPAK/QGRRSGKQRLRPW DRMLSPDWHRAQRIAQVWKPE QEDGLSIGFGDQPGPHSDTSSR QQVRRSKATEMHVGGRVDFD DFVELMTPKLLAETAGMIGVQ EMRDAFKEFDTNGDGEITLVEL QQAMQRLGERLTPREISEVVR EADVNGDGTVDGEGDIDGAWG RHGTQGPWWPGLGDVVRGEPL
23725	54093	A	23860	283	490	GDIWMGTQPKPYHS/PPGPSPN/ PCPPHFNQSMPSPKSPKVFNS FPALTQKVHTSKVSSETRQVPS HL
23726	54094	C	23861	82	222	
23727	54095	A	23862	27	454	VDGRIAGEITRRGSRARPRPGPQ CPPGRPGTAMIKAILIFNNHGKP RLSKFYQPYSEDTOQQIIRETFH LVSKRDENVCNFLEGG/LVFVE TLDKCFENVCELDLIFHVDKVVH NILAEMVMGMVLETNMNEIV TQIDAQNKL
23728	54096	A	23863	1	403	RGRSARPRPGPQCPCPPRGPTAM IKAILIFNNHIGKPRLSKFYQPY EDTQQQIFRETF/HLGSKKEEK WNLKGGLLIGGSDNKLDYRH YATVYFVFGGDFSKRELGLN LIQEFGEPLDKCFEKVWELDLIF
23729	54097	A	23864	215	599	

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23730	54098	A	23865	2	683	GRIAGEITRRGSRARPRGPQCP PGRPGTAMIKAILFNNH GKPRL SKFYQPYSED TQQIIRTFHLV SKRDENV CNFLEGG LLIGGSDN KLIYRHYATLYFVFCVDSSEVS ELGILDLIQVFVETL DKCFGNV CELADLIFHVADKVHNLAAEMV MGGMVLETNMNEIVTPID AQN KLEKSEAGLAGAPA'RA'VSAV KNMNLPEIPRNINIGDISIKVVP
23731	54099	B	23866	94	726	
23732	54100	B	23867	94	1146	
23733	54101	B	23868	1	360	
23734	54102	B	23869	1	1371	
23735	54103	B	23870	1	639	
23736	54104	B	23871	280	2391	
23737	54105	A	23872	3	244	
23738	54106	B	23873	103	285	
23739	54107	A	23874	70	378	MPLRILLMHGEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEILQIKTK HYTTKEQEKEEQGIKLVQGSNN D/QEQEKKGEYKNTGEKNSMK
23740	54108	A	23875	5	156	RKKGGG/EEEEEGEEEEEEEE EEEEEEEEEEEEEEEEEEVVL LTPGTGAEDFKKH

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23741	54109	A	23876	1	1808	MEVLSIDNLAGHKVFYQKESH WKQKQKDLMSGKRLSAAANPLP ALLLPVLWTTGQAPSPGGDP ILQLWDDAQMQAGSPRTKKKG CTRNQQAARLSFQSRGGQGS LTKMIFEQRFGGGKGESKDAIA IIVVDIVTLQPCRTVEWVPTRPF RSLQGHFQGLRRQMMVMVE GVVWVLSAMDLTSPRDCLPFC VSLPVLLLSAPLCSCTAGGSPV TSPHHFPVEGGLGRVRRCYNE PVVTTLGWESVCWVSFWLLLR IRYSTGQAACHAESQELNPRG FGCLGHRNVTWVKCLLPALQP EGSVPFLELLEPFIFASAKTFV AANLVTWVACFLLVQAQFQSL EYRQGVGIPVADRTGDAPTLGL SYEADVAEGHGFLLDQESVIQII PEPLPQFYLCLLDAELTGVQGE PALPSMQIFSSPEAATGVHNDR GAEHFPVSRQPSAELGLRPMQA SQERKINFPGPSGFPKRNKT LSRREKKEEEKKEEEEEEEE/E GEEEEKEEEEEKEEEEEEEEE GEEEEEEEEEEEEEEEEEEEE KWLYQYDPEDKAQSKQWLSR GGSGPVKAKADWWRAKEIHSL QPRQVIPGIPSM
23742	54110	A	23877	459	636	IPGGSNGLEAEGPPPPPLVAAV LA/AGSGGLAVASCAFTICALR WPGVPCSRVPIWTPS
23743	54111	C	23878	183	254	
23744	54112	A	23879	103	335	LGSGDLPWEINPLSSCSLLHEK DPPTTSGPQTDPRKEHLNFKSG ACYTCRKSGH*AKECLQGIPIK PHLICVGP
23745	54113	A	23880	159	306	LGSGNLP*EINPLSSCSLFREEDP PTTSGPQTNQPKHLTNFKSAA ED
23746	54114	C	23881	80	106	
23747	54115	A	23882	317	427	
23748	54116	A	23883	353	511	
23749	54117	B	23884	1	320	
23750	54118	A	23885	1	624	
23751	54119	A	23886	224	355	
23752	54120	A	23887	872	1003	
23753	54121	A	23888	1	603	
23754	54122	A	23889	2	214	
23755	54123	A	23890	459	601	DVDRHVRGSNFHHNEIRSLAAT PRAPGTLAQGLTDSFPDLLGLA AED

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23756	54124	A	23891	2	267	QWDGWWGARKGMEWEDDLPLE FGRPTASLLSDRPQPNSSRGSDV PFLAPSLPCHSSACLAATPRAPG TLAQGSLTDSFPDLLGLAAED
23757	54125	A	23892	72	299	
23758	54126	B	23893	1	1470	
23759	54127	A	23894	134	1276	
23760	54128	A	23895	2	847	PPPPRVLRITGGGASLTAQAPGT PRRPQGEFVTPGRSLGLRSSCQ ASVSLLLPVIVACASLEPGRGR AFRDEGAWNTRVSAAVISSQA QLLSSILVNSRRLSFSAHHTAFG TVVALGEYAFRMFRLSARLFGVE VTRPTNS/RLSMKVVKLFSE/IW PLAKKKETYDWYPNHHTY/AL ELMAGRLRFLGTLTEDEAFRDF MGMEAKTDLKEAFVKGKGNP KEREKGKRAAKKGNSCLVPSR RGDFLSSVAERRKLHLLSFPHIG GDVIFLNGSLFGRNTSHLLGEI
23761	54129	A	23898	3	1224	MRRNKPRQRGVREARPAGGAG PGWRGARCAGEGGGGERRG SPPAALALAPASGPRRNFPDA RCLIVQIHHQGAFLLAGSASLS AVTGVPGEARFTEDYCPEEK MFGFHKPKMYRSIEGVCISGA KSSSSRFTDSKRYEK/DFQ/SCFG LHETRSGDIGNACVLLVKRWK KLPAAGSKKWNHVVVDARAGP SLKTTTFEPKIKVKTLSGNRIK/S TQISKLQKEFKRSNSDAHSTTS SASPAQSPCYNSQSDGSDTEM ASGSNRTVPVFSFLDLTYWKRQK ICCGIHYKGRFGEVLIDTHLFKP CCSNKKA-AAEKPEEGPEPLPIS TQEWTECPDLSLVVSWRPPLSS LPAGCSLHGLAADWTTDMITV TTSKCREPSCQEGSFQRRKAF PKRLPKMAEVQVLVL
23762	54130	A	23900	69	355	
23763	54131	A	23901	316	830	VLSLQTLHPPMTLQLSRYSRGW GLSSDRPRGAKAKVPSCFGTAP R/GPEAAPRLLAHHLVPAGRG/S ARAPAPGWRLGSPGAGRKGR DFRLPASGLAVSGEWDPIPWGY VGEVGGCSCQWFSFGVQKRR RRKVWLGQPDLPGPSALADK GPALAKADGQRYNVASVGLQP

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23764	54132	A	23902	1	1044	MSYKVTQEISKELRWISAVLVT WDLRGETGTRVCIAMGVSRMQ YSIMAKIVGSGNNLELNPAADK LDNLGAQCGLASVKVSARAAP PFAPATLVALLEARAELPLPPP PGVSLRCVEAPDVRGRGRGGG EGSGVTRLLLP PPPSGASFLQR GRPVT PALFQAGWGRAADRP PADLAGGAGGRSGRRMLPRS PGAALDRSALEDGIVEGYGPL GEPEEGSRSSFLESKVAFNYCN KVAFDLDFGNEAVEQCHTMSDR KAVIKNADMSQDQDAVDC ATQAMEKYNIEKDIAAYIKKEF DKKYNPTWHCIVGRNFGSYV PHTEKHFYFYLGQVAILLFLK
23765	54133	A	23903	33	427	
23766	54134	A	23904	72	777	EWKQAGEGGGQRRGSPPAVL ALAPASCPREMSYLPNPPGSI LICWLGVSLSHRSAGGSAIY G\SYYPEEKMVFVHKPKMYRSI EGYCICRAKSSSRFTDSKRYEK DFQSCFGLHETRSGD\ICNACVL LVKRWKKLPAGSKKKTGIMCN QSDDGSDTEMASGSNRTPVFSF LDLTYWKRQKICCGIN YKGRF GEVLIDTHPFKPCCSNKKAAAE KPEEQGPELP\ISTQEW
23767	54135	A	23905	234	989	PKTSDQAYYCPEEKMFGFHKP KMYRSIEGC\ISGAKSSSRFT DSKRYEK\DFQ\SCFGLHETR\SG D\ICNACVLLVKRWKKLPAGSK K\NWNHVVDARAGPSLKTTLK PKKV\KTL\SGNRK\STQISKLQK \ENFKR\HNS\DAHSTHPQVPSP AQSP\FTVNQFRWTGSDTGVG FPGSNRNHPVFSFLD\TYWKR QKICCGIN YKGRFGEVLIDTHLF KPCCSNKKAAAEKPEEQGPEP LP\ISTQEWVTEVFM
23768	54136	A	23906	3	1059	

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23769	54137	A	23907	1	1697	MRPCALCWRSAVTAAPERAVL ESRGGAPDTPRRLHSFTQTRSL PQAAGPHTRLHPROGHAHMR GGGRVTDTRRHIPNADVPRYK LTCTGGVTTFVALYDYESTRET DLSFKKGERLQIVNNTKGDW WLAHSLSTGGTYIPSNYVAPS DSIQAEWYFYGKITRRESERLLL NAENPRGTFVLVRESETTKGAYC LSVSDFDNAKGLNVKHYKIRK LDSGGFYITSRTQFNSLQQLVA YYMSHCPPFSAAGWYGGGCP EEPQKHADGLCHRLTTVCPTSK PQTQGLAKDAWEIPRESLRLEV KLGQGCFCGEVWMGTWNGTTR VAIKTLKPGTMSPEAFLEAQQV MKKLRHEKLVQYAVVSEEP YIVTEYMSKGSLLDFLKGETGK YLRPLQLVDMAAQIASGMAYV ERMNYVHRDLRAANILVGENL VCKVADFGLARLIEDNEYTAR QGAKFPIKWTAPEAALYGRFTI KSDVWSFGILLTELTGKRVVPY PGMVNREVLDQVERGYRMPCP PECPESLHDLMCQCWRKEPEER PTFEYLQAFLEDYFTSTEPQYQP
23770	54138	A	23908	1	736	MDPGAALQRRAGGGGGLGAG SPALSGGQRRRKQPPRPADFK LQVHIGSRGVGKTSMERFTDD TFCEACKSTVGVDFFKIKTVELR GKKIRLQIWDTAGQERFSSITSA YYRSAKGMLVYDITKKETFDD LPKWMKIDKYA/SEDA DLLL VGNKLDCE/TDREITRQQGEKFA QQITGMRFCESAKDNFNVDIEI FLKLVDDILKKMPLDILRNELS NSILSLQPEPEIPPELPPRPPIHVR
23771	54139	B	23909	84	441	
23772	54140	A	23910	6	254	
23773	54141	A	23911	1	230	
23774	54142	A	23912	3	187	
23775	54143	A	23913	3	143	
23776	54144	A	23914	3	481	
23777	54145	A	23915	1	711	
23778	54146	A	23916	55	381	

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23779	54147	A	23917	240	875	GLSAESTPTSIMSMTLGWDIR GLAHAIRLLLEYTDSSYEKKY TMGDAPDYDRSQWLNKFKL GLADFPNLPYLDGAHKMHPEA TPFLCYIARKHNLLGETGRRE KISSWDILNENQAMDVSQNLAR VCYSPDFEKLKPEYLEELPTMM QHFSQFLGKRPFVFGDKITFVD FLAYDVLDLHRIFENCLDAFP NLKDFISRFVSCGIM
23780	54148	A	23918	64	774	CLSAESAPTSTMPMTLGWDIR GLAHAIRLLLEYTDSSYEKKY TMGDAPDYDRSQWLNKFKL GLADFPNLPYLDGAHKITQNSA ILRYIARKHNLCGGDRRREKIS CWDILENQVMNHNMELVRLC YDPDFEKLKPKYLEELPELKL YSEFLGKRPCFLGDKITFVDFL VYVDVLETKQVFEPKCLDAFIQ NLKDFISRFEGLEKISAYMKSS RFLQELVFSKMAVWGNK
23781	54149	A	23919	163	317	LSPNNYYRKLQPKVKLE*RYHR LALFSFPTKLTPKVSLLCCFL EMGYIF
23782	54150	A	23920	62	255	VRLTAQKSLGPLTSTHSLWGS ARARHREPVGSVCGCDPCEQL LLVSQLRAPGVDSAAAGRPV
23783	54151	A	23921	173	467	KSRFCFFGVVLKPKKLHIR*WI GATL*NQP*TIFQTDGDCSHQSL GPLPACDLWDQLHLRSKOGGS VCGCDPCEQLLLVSQLRAPGV DSAAAGRPV
23784	54152	A	23922	35	548	PRSCPSLSPGLSCLLQ/RLVNYQI SIKCSNQFKLEVCLLNAENKVV DNQAGTQGQLPAVGQARWGS GCRGAHTWPLAVIGAADCTG QRGWEGV*APFGLTEPVSSLFC GQDGD/CSPHSM*VLSHVVLWL LNLGLCSLVLGSVCGCDPCEQL LLLVSQLRAPGVDSAAAGHPV
23785	54153	A	23923	1	599	MSPAGLVNYQISVKCSNQFKE VCLLNAENKVVDNQAGTQGQL KGRPDGAQAV/VGAHTWRFGC RRCC*LHRSHWGL*LLHTPCGR PHCARHREPVAHSLLCRAISGS EPHFQCSVQ*PQLCVPRVAT PLGELSDGDGDCSHQSLGPLPA CDLWDQLHLRSRQGSVCGCD PCEQLLLLVSQLRAPGVDSAAA GRP
23786	54154	A	23924	290	528	

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23787	54155	A	23925	274	571	KSRFCFFGVVLKLPKKLHIR*WIGATL*NQP*TFQTDGDCSHQSLGPLACDLWDQLHLHSRQGGSVCGCDPCEQLLL\VSQQLQAPAI DSAAAGRPV
23788	54156	B	23926	204	410	
23789	54157	A	23927	29	330	YLGVELVKSAYPFFQIHLSPSCMWL CGLFLFYIDFL TLMCGDKPLICKKHQLSASTCA/CTIC*GAL TLLMEIEQGQCDLSCASREVSTARSLAELFSGP
23790	54158	A	23928	259	699	ETSHQVMDRSNPVKPALDYFLNRLVNYQISVKCSNQKLEVC LNAENKVVDNQAGTQQGLKV LGANLWWPYLMHEHPAYLYS WEDGDCSHQSLGPLACDLWDQLHLRSRQGGSVCGCDPCEQLLLVSQLRAPGVDSAAAGHPV
23791	54159	A	23929	245	695	
23792	54160	A	23930	302	745	ETSHQVMDRSNPVKPALDYFSLNRLVNYQISVKCSNQKLEVC LNAENKVVDNQAGTQQGLKV LGANLWWPYLMHEHPAYLYS WEDGDCFTPKALDPLACDLWDQLHLRSRQGGSVCGCDPCEQLLLVSQLRAPGVDSAAAGRPV
23793	54161	A	23931	2	293	VFCHTDLRKNLTVDDEGTMKVEVLPALTDNYMYLVIDDETKEA AIVDPVQPKVVDARKHGIV KLTTVLTHHHWDHAGGNEKL VKLESADLGIRLF
23794	54162	A	23932	1	441	
23795	54163	A	23933	1	630	
23796	54164	A	23934	3	265	
23797	54165	A	23935	3	1062	SAVQPGPVMVVGRCGRSRLAALGAACARRGLGPALLGVFCHTDLRKNLTVDDEGTMKVEVLPALTDNYMYLVIDDETKEA AIVDPVQPKVVDARKHGIV KLTTVLTHHHWDHAGGNEKL VKLESADLGIRLF

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23798	54166	A	23936	107	750	SHLWSPVSEPLQACSFC/VIRDK YRYFACLMRARSEHTNEKDM MKAIRLLKEAEEEFWYHQHPQ PCIFPDSPRGTSYVTHECYKVPE WCLDDWHPSEKAMYDPYFAK RKQWKLLRRRESWKREVKQLQ EETPPAGKEECKLHEGMNYVV LTCIPGAIKQYLACRSYKTPGP RDSCEWVQSDNQCWWWLDGSG AHGLVTSFKGVMMTVEATTM AAVF
23799	54167	A	23937	3	718	PASTISCVSTRSRAVSRLSARP GKVSAMASLASGPYLTHQKQ VLRLYKRALRHLESWCVRQDK YRYFACLMRARFEHKNQDM AKATQLLKEAEEEFWYRQHPQ PYIFPDSPWGHPYERYDCYK VPEWCLDDWHPSEKAMYDPD YFAKREQWKKLRRSEWEREV KQLAQEETPPGGSF*LEALPPGP KRKVLPLWVYIVTRPRERP MLERERPHLSCLQVKYVTEHG
23800	54168	A	23938	269	488	TDGVIFIGLSWSPRRCGLGIRD AERIFFALDQASCGFTIHPHIDA AETPRGLTMHLCRRCQRGQSQ AEKLP
23801	54169	A	23939	1	1560	MVHLGAPVMALNLQGGKHLCD STASSLLPRRRESNSDDTARED ARQKRPA NTDMRTQELQ TRET GQGTARETEVATPLSGPSAGDS PPAASEMSCGQLVLALLLFFL LVWNTGTKSGSGRVARLAQLA HDCDGGALGLCYAVLDQRSV VQATPQAPKPGPVQPLTVQGL QPVHVAQESSGNEITARRQSAR SRPRGDRTPASRRVTRRPKHAP ERAPIQQGNIVTVRAPTARKKW RPAVGTPTGAHPVCTAKGTGG RPTPTQAHTRYTERDPIRNSAEL TGSRRPCTGRERSGVEACKAAV HNLLVAQTGSSGLIINYPLDDIQ DAIAVEAACTNVPALFLDVSQD TPINSIIFSHEDDVWRTPLVAPT NLNTRSSQPAHHHRAGAVRRH HMTVARSATAHARLRRHAKPQ GRERIKPSGAREGSEPLGGESGI RTPRGRERDPNPSGAKAGSEPG RIPETLPRCKGETEAKCWARGN FHTAQGSWPRGGRSRWEPLA PALSQQAHHGGEPLPAAARSHR
23802	54170	B	23940	98	229	

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23803	54171	A	23941	1	256	
23804	54172	A	23942	289	433	VLWSCAAEDFDWL VYRPIGSA LSCLRGPAIGMWETGFP*VL WSCAAEDFDWL VYRPIGSA LSCLRGPAIGMWETGFP LLSVLS
23805	54173	A	23943	450	1260	LCACVVGGEKRSGRIGCAGA GKDPFWRAVGVAAKAAVVA CGAASPYRNADVSVDHSQS RGPGLSLSGGTVCMDGKKT RTADSSSEDEEEYVVEKVLDR RVVKGQVEYLLKWKGFSEHN TWEPEKNLDCPELISEFMKKY KKMKEGGNNK VREKSESSKR KSNFSDSAEDIKCKKKREQSD IARGFERGLEPEKIIGATDSCGD LMFLMKWKDTDEADLVLAKE ANVKCPQIVIAFYERLTWHAFA PEDAENKEKETAKS
23806	54174	A	23944	3	267	AMVGGGGVGGG LLENANPLIY QRSGERPVTAGEEDEQVPDSID AREIFDLIRS*AWPLTPQAYW YPGPSSCQGCYRCFLES LTMRN
23807	54175	A	23945	1	942	
23808	54176	A	23946	3	470	AMVGGGGVGGG LLENANPLIY QRSGERPVTAGEEDEQVPDSID AREIFDIRRCWARAGSGGLRW GEQ*YRAAGGAASQGVPGRG F*VGKGAESLFLHFPQ/LIRFLN DP/EHSLTLEELNVVEQVRVQV SDPESTVAVAFTPTISHWSMGT
23809	54177	A	23947	2	604	ARSHRISGGGSAMVGGGGVGG G LLENANPLIYQRFGERPVTAG EEDEQVPDSIDAREVFDLIRSH QMTPEHPLTLEELNVVEQVRV VQVSDPESTVAVGFPKPTHSGT CRHIGPPLIGLSIKVK/LLRSLPS AFSRWDVAHLLPGDPLPQEHHA VEQATLQIKEAGWATALGRTH HLLEVVNQCLSSPAGTWAFF
23810	54178	A	23948	1	1002	

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23811	54179	A	23949	89	2587	STSRDRRLSKRSRTTMAAQPRG GDYRGSFLLSLLGTPWEAWAG RILYSVSEETDKGSFVGDIADL GLEPRELAERGVRRIISRGRTQLF ALNQRSSGLVTAGRIDREEICA QSARCLVNFNLMEDKMNLYPI DVEIIDINDNVPRFLEEINVKI MENTAPGVRFPLEAGDPDVG TNSLQSYQLSPNRHFS LAVQSG DDETKYPELVLERVLDRREERV HHLLVLTASDGGDPRSSSTAHIQ VTVDVNDHTPVFSLPQYQVT VPENVVPGTRLLTVHAIDLDEG VNGEVITYSFRKIIPKLPKMFHL NSLTGEISTLEGLDYEETAFYE MEVQAQDGPGLSTKAKVLITV LDVNDNAPEVTMTSLSSSIPED TPLGTVIALFYLQDRDSGKNGE VTCTIPENLPFKLEKSIDNYRRL KVTTKNLDRETLSLYNITLKATD GGTPPLSRETHIFMQVADTNDN PPTFPSSSYVYIAENNPRGASI FLVTAQDHDSEDNAQITYSLAE DTIQGAPVSSYVSINSDTGVLY ALQSFIDYEQRELQLRVTAHDS GDPPLSSNMSSLFVLDQNDNP PEILYPALPTDGTGMELAPRSA EPGYLVTKVVAVDKDSGQNA WLSYLLLKASEPGLFAVGLYTG EVRTARALLDRDALKQSLVVA VQDHGQPPLSATVTLTVAVAD SIPVELADLGSLEPSDGPYNYDL
23812	54180	B	23950	165	335	
23813	54181	A	23951	217	859	GSAMAQQRALPQSKETLLQSY NKRLKDDIKSIMDNFTEIJKTAK IEDETQVSRATQGEQDN YEMH VRAANIVRAGESLMKLVSDLK QFLILNDFPSVNEAIDQRNQQL RTLQEEDCRKLITL RDEISIDLY ELEEEYYSSSPGPLVVSQQLSEQ QLLSSAWTA WPKVTLSSLAPGP QYSVNGPAAIIAHPGTCASAGIS SLLPEPVLVLPVF
23814	54182	A	23952	1	1263	

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23815	54183	A	23953	70	2530	PGVSRLVSKLRRARGMGSGAG ELGRAERLPELFLFLTLFCPAL CEQIRYRIPEEMPKGSVVGNA TDLGFSVQELPTRKLRVSSEKP YFTVSAESAELLVSSRLYREEIC GKKPACALEFEAVENPLNFY HVNVEIEDINDHTPKFTQNSFEL QISESAQPGTRFILGSAHDADIG SNTLQNYQLSPSDHFSLINKEKS DGSKYPEMVLKTPLDREKQKS YHLTLTALDFGAPPLSSTAQIH VLVTDANDNAPVFSQDQVYRVS LSENVYPGTTVLQVTATDQDE GVNAEITFSFSEASQITQFDLNS NTGEITVLNTLDFEEVKEYSIVL EARDGGGMIAQCTVEVEVIDE NDNAPEVIFQSLPNLIMEDAEL GTHIALLKVRDKDSRHNGEVT CKLEGDVPFKILTSSRNITYKLV TDAVLDRQNPEYNITVTATDR GKPLSSSSSITLHIGDVNDNAP VFSQSSYIVHVAENPPGASISQ VRASDPDLGPNGQVSYCIMAS DLEQRELSSYVSISAESGVVFA QRAFDHEQLRAFELTLQARDQ GSPALSANVSLRVLVDDRNDN APRVLYPALGPDGSALFDMVP HAAEPGYLVTKVVAVDADSGH NAWLSYHVLQASEPGLFSLGLR TGEVRTARALGDRDAVRQRL VAVRDGGQPPLSATATLHLVF ADSLQEVLPDITDRPDSDLQA
23816	54184	C	23954	75	149	
23817	54185	A	23955	442	618	CQRLRSWVSQPSFSFFPSFPT* NILCLFVYLEVEFPSCCPGWSN NWKSSGKALEAN
23818	54186	A	23956	1	245	

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23819	54187	A	23957	30	1079	APCASFLTPLAAASVGKVLG LRGAAPMASVLSYESLVHAVA GAVGVSVTAMTVVFPLDTASIF DFSVDPKRKSKTTHMVVLEIHK EEGLLAPYRGWFPVVISLCCSNF VYFYTFNSLKALWVKGQHSTT GKDLVVGFGVAGVVNVLLTTPL WVVNTRLKLQGAQFRNEDIVP TNYKGIIDAFHIIIRDEGISALW NGTFPSLLLVFNPAIQFMFYEGL KRQLLTFAPQLSSLDVFIIGAVA KAIAITTVTYPLQTVPLFPQFGR HRLNPNERTLGSLRNILYLLLQI FRTPSREPFYTSVTLVSLSSVA YPMMPLSNITSAYRIGVLEKGG GSGKSDNSDDDDNDGGV
23820	54188	A	23958	1375	2451	VPRVPFAINVLTHSRQRYRRNL RFYADDPTRV/GGPTYHWVRE AEEERVVDNRMHDRFCELRTA AGHPVEGGRPLVIKITHPAET ALQRFKFLMYQVVASDLDTGL LSPDHTLSPYAKETLKLTLTARGI NFVFATGRHHVDVGQIRDNL KSYMITSNGARVHDLGDLNIFA HNLDRIASDLFGVVNDNPDIIT NVYRDDEWFMNRHRPEEMRFF KEAVFQYALYEPGLLEPEGETK ALLTPGKLKNFLVEKMRTLGT AACPPYHIAFVIGGTS AETNLKT VKLASAHYYDELPTEGNEHGQ GSAMSSWNRNCWKRPRNSVLA RSLAVNTSRTTFALSCHVTAH PARSAWASPV
23821	54189	B	23959	1	1386	
23822	54190	A	23960	1375	1609	VPRVPFAINVLTHSRQRYRRNL RFYADDPTRV/GGPTYHWVRE SVEERVVDNRMHDRFCELRTA AGHPVEGGRPLVIK
23823	54191	A	23961	433	741	
23824	54192	A	23962	12	224	
23825	54193	A	23963	3	2053	

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23826	54194	A	23964	1	2408	MGGADIAGPRREHNAKHPTVG LGSAAQTTCLPGPKQKGDPTRH QPVDKRNDVGPRQHFQWCWRV EIHKEKRMKTGPLNESELEWLD DILTKYNTDHAILDVAELDGLL TAVLSSPQIEPEQWLVA VWG GADYVPRWASEKEMTRFMNL AFQHMADTAERLNEFPEQFEPL FGLREVDGSELTIVVPPGGRTA TNALSCGSLFGEETSPRGPADS TSQSIGGSGPHDCAKGIALVAA NGGDIRDYEGVDRSAKPQLPMI AINTTAGTASEMTRFCITDEAR HIKMAIVDKHVTPLLSVNDSSL MIGMPKSLTAATGMDALTHAI EAYVSIATPTDACALKAVTM IAGISTFFASSRMALMQASAPSA SFLPVTFTPIAAAQSRRAAAT GYRDRWLCHGDVLLQICANTQ DTVIHALRDIKHNSCPDDCSVQ HDAVIDDGCDFIDYLGGETVV ALNTPRADDYHPVMVLCAKTD KAHRNVIHTSKLCFITLTPEISQ RSHGKSSKRVSFCFPVLLKH RRIVAQKYAELAYDLFHLGFD VLIIDHRGGQGRSGLLADPHLG HVNRFNDYVDDLAAFWQQEV QPGPWRKRYILAHSMGGAISTL FLQRHPGVCDVAIALTAPMFGIV IRMPFSFMAQILNWAEAHPRFR DGYAIGTGRWRALPFAINVLTH SRQYRRNLRFYADDPTRIVGG
23827	54195	B	23965	1	3357	
23828	54196	A	23966	14682	14931	EIGPGPRPLPSPLP*ATSTSVLAA SGRPERTRHAGIKIVLEDIFTL WRQVETKVRKIRKMKVTTKV NRHDKINGKRKTAKEQSPLLQE SLFATGDSHNLLRALDVGLLA NLSALAEIDISNNKISTLEEIGF ANLFNLSEINLSGNPFECDCGL AWLPRWAEQQVRV/AAARGS HVCWAWLPGWPASAWHPLAG QWL.W*GVCRLPP*QQLRHRS SVLFSCPRRPA/CSQRPAAPAS PPARASQSPSRA

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23829	54197	A	23967	1	714	MVKLSIVLTPRFLSHDQGQLTK ELQOHVKSVTCPCEYLKRVINT LADHRHRGTDGFGSPWLLIITV FLRSYKFAISLCTSYLCVSFLKTI FPSQNGHDGSTDVQQRARRSN RRRQEGIKIVLEDFILWRQVET KVRAKICKMKVTTKVNHRDKI NGKRKTAKEHLRKL SMKEREH GEKERQVSEAEENGKLD MKEI HTY/MITPSARKPLCNVRMAA AEHRHSSGLPYWPYLTAETL
23830	54198	A	23968	111	216	ALLFPISWTSTPLGTQQAQCVC* PTPMPMKRPVPS
23831	54199	A	23969	1	4710	
23832	54200	A	23970	3544	3723	RSIRSPPRCPPSRAPARRSAAA PPRR*PPRAPAAPRPGPP/CMAR PPPARPTAGSRVPPPL
23833	54201	A	23971	3	1119	EFGTSHRHRGTDGFGSPWLLIIT VFLRSYKFAISLCTTYLWVINTL ADHRHRGTDGFGSPWLLIITVF LRSYKFAISLCTTYLCVSFLKTI FPSQNGHDGSTDVQQRARRSN CRRQEGIKIVLEDFILWRQVE TKVRAKIRKMKVTTK\ATRLTK IKERRKTAQDHWRLKLSMKERE HREERQVSEAEENGKLD MKEI HTYMEMFORAQALR\RAED/Y YRCKITPSARKPLCNVRMAAA EHRHSSGLPYWPYLTAETLKNR MGHQPPPTTQHSIINDNSLSLKT PPECLLTPLPPSALPSADDNLKT PAECLLYPLPPSADDNLKTPPEC LLTPLPPSAPPADDNLKTPPKC VCSLPFHPQRMHSRN
23834	54202	A	23972	1	1149	

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23835	54203	A	23973	93	1165	HRRSAAEAPAAAVMPFFPGKS HKSPADIVKNLKESMAVLEKQ DISDKKAEKATEEVSKNLVAM KEILYGTNEKDPQTEAGAQLAQ ELYNGLLITLVLADQLIDFEGK KDVAFQFNILRRQIGT'RTPTV EYICTQ'QNILFMLLKGYESP/IEI ALN/CGIMLRECIRHEPLGKIIL WSEQFYDFFRYVEMSTFDIASD A/FATFKGLLTRHKLLSAEFLEQ HYDRFFSEYKLLHSENYVTKR QSLKLLGELLDRHNTIMTKY ISKPVNKLKMMNLLRDKSRNI QFEAFHVFKAFVANPNKTQPI DILLKNQAKLIEFLSKFQNDRT DEQFNDEKTYLVKQIRDLKRPA QQEA
23836	54204	A	23974	3	158	
23837	54205	A	23975	3	1071	GVRASGRAVPRAVFAGMKRPC EETTSSEDMDETIDVGSNNYS GQSTSSVIRLNSPTTTSQIMAR KKRRGIIEKR/RRDRINLSSEL RLVPTAFEKQGSAKLEKAEILQ MTVDHLKMLQATGGKGYFDVA HALAMDFMSGFRECLETEAAR YLSSEGLDSSDPLRVRLVSHL STCATQREAAAMTSSMAHHHH PLPHHHWAAAFHHLPAALLQP NGLHASESTPCRLSTTSEVPPAH GSALLTATFAHADALRMP/ST GSVAPCVPLLSTLSLSATV/H AAAAATATAAHSFPLSFAGAFP MLPPNAAAAVAATAISPPLSV SATSSPQQTSSGTNNKPYRPWG TEVGAF

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23838	54206	A	23976	1	1416	MPGNLTRKESSPLTDHCHTS SQFSHRFNAISFPFAELGCDHV ASAAADPLGVPGVATQWAGGL SAALAAPRRPHSCRRLLQVLGAL GILKSAGRNVNFRFCGPLSIRGKP KTPLWEQEKPKLQTGSAGSQQ KRVMLKPSRGADRVLGRGSQR PAETDRETTDLRQKRKMKEGK ERTLRAARGETRRSNGNLARQ TVPEGCRSQTALQVVRNART PPCIPNLDRPPEACSSGSTGGM MPLRVASPSVASGESSHLSGR GDRGLVRCKVEELRFQPVAFPE FIPPTSPRADSESGDWCCVTVA NPSKTGGGWEQRKTECPQGR TQNPQQRGS/RNLVLLTAGQES TPRRSQLTRSPAERRTEEQGE DRKNRALGCNLFPRVPRHARD SQRALRASTQAPKSTFAFPGI HSGAVCSKRRICGVQGEPPFLPF ASQCSSCLKILPSGPTKELTSY LLHSGCGFLDKLRV
23839	54207	A	23977	3	139	
23840	54208	A	23978	141	734	GSOLRRPAFGVRVALEESKGLI RKDCSRGRACAGANACARRRR PPTMSGAAWRGTPLALVRSSRT RGVVAWQWSATRSPSDSCFP VARDKEDGEPKTKHLREEEEE GEKHRELRLRNYVPEDDLKK RRVPQAKPVAVEEKVKEQLEA A'SPEPVIEEVDLANLAPRKP DLKRDVAKKLEKLRRTQRAI GRLLDP
23841	54209	A	23979	3	585	GTVGGVCGPRRSSASPEQDQ DRRKDWGHVELLEVLAQARALF TAVPLSEEDRATVLKAVHKVK PTFSLPLQLPPVNTSKLLRDVY AKDGRVSYPKLHLPLKTLQCLF EKQLHVELASRMCVVSVEKPT LPSKEVTHARKTLKTLRDQWE KALCRELRETKNRLERQVYEG RFSLYPFLCLLDECEVVRMLLQ

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23842	54210	A	23980	1	3778	MRRRGVPGWPGAACVMSALC WGRGAAGLKRALRPCGRPLP GKEGTAGGVCGPRSSASQPE QDQDRRKDWGHVELLEVLQA RVRQLQAESVSEVVNRVDVA RLPECGSGDGLQPPRKVQMG AKDATPVPCGRWAKILEKDKR TQQMRMQRLKAKLQMPFQSG EFKALTRRLQVEPRLLSKQMG GCLEDCTRQAPESPWEEQLARL LQEAPGKLSLDVEQAPSGQHSQ AQLSGGQQRLLAFFKCCLLTDQ
23843	54211	A	23981	101	805	HMYTSMKPSSQPRSWISTPHPK ACSSLSFPLSLDNWMNNINLREVI CTSRDGDKFWRMPECYIRGSTI KYLRIPEIIMVKEEVVAKPR GRGGLQQQKQKGRGMGGAG RVGSPSSGIVPGAGRQPHVAS LLLGVALAALPRRLPNLPGPPS CPLAMNRGPGRGAPRHGTQSSS QCASWRSSGHIKSPQAPVSPM RGNGGAHLRSLATTLTLGRGS IQSQGRPPPEMMNWH
23844	54212	A	23982	133	1069	RIAWGQDRSCLQGPFATYVP GLILCSLQGWYGVQAGQDLQG LPRSQGWARRPGGLITCSPSP QDGDGKFWRMPECYIRGSTIKYL RIPDEIIMVKEEVVAKGRIGR EGPCQQAESQK/GVVRMGGA\I GRCVFGGRGRGMGPITG\RGH PDKKPGRQAGQTVSAHPDRL RPLLARVGDFRSTVSENNLLQK GRGRPPRGEPPFRVLVTPSLFKV KAPFFLPKNRQILRVKCLLCCF FGFCETGPSQKLGWNPRLVLC LKAIFSSPFASFGSKASHFRRG LFLHFLGSLSEASNQTGRFLIK
23845	54213	A	23983	1	326	PVSLECYTVPPEDNLALLQLYF RTLVTGA/LRPRWCPVLAYVTL WPHVNSFISQRPRIVDIDGKM GTLSCIQPFNRCLARRRTLCPNG RQETKEQKACLPGSRLFELF
23846	54214	A	23984	2	341	

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23847	54215	A	23985	114	712	DLISALMIWFHVIHTPYVCYI PTLPLSTSFPLSQLPVSLCYTV PPEDNLALLQLYFRTLVTGALR PRWCPVLYAVAVAHVNSFISQ DPQSSVSYSIFGRKGASN*AA SGPAGEEVSVKQGWVVPAL GSVPPLPVLLDEVKAARRSM LQKTWLLADEGLRQHLLHYKL PNSTLPEGFELYSQMPPLRQHY
23848	54216	A	23986	357	2771	FESSCPVGSVPVAGPTPSLYKV PCATAMKLLRLVLSAGRNI RLSSFDLRSRLCRIIAEAPQEL ALPPEEAEMLSTEALRLWAVA ASYGQGGYLYRELYPVLMLRAL QVVPRELSTHPQPLSMQRIASL LTLLTQLTLAAGSTPAETISDSA EASLSATPSLVTTWTVQVSLQPL VEPCLRQTLKLLSRPEMWRV GPVPAACLLFLGAYYQAWSQQ PSSCPEDWLQDMERLSEELLPL LLSQPTLGLWDSL RHCSLLCN PLSCVPALEAPPSLVSLGCSGGC PRLSLAGSAPFFLTALLSLN TLAQIHKGLCGQLAAILAAPGL QNYFLQCVPAGAAPHLTPFSA WALRHEYHLQYLALALAQKA AALQPLPATHAALYHGMALAL LSRLLPGSEYLTHELLSCVFRL EFLPERTSGGPEAADFSDQLSL GSSRVPRCGQGTLLAQACQDL PSIRNCYLTHCSPARASLLASQA LHRGELQRVPTLLPMPTEPLL PTDWPFPLPLRLYHRASNTSPG\ LSPDTMTMG\TAMIRVLQWVLVL ESWRPQALWAVPPAARLARLM CVFLVDSELFRESPVQHLVAAL LAQLCQPQVLPLNLNDCGLRG LTSFPDLYANFLDHYEAVSFGD HLFGAMVLLPLQRRFSVTLRLA LFGEHVGAALRALSLPLTQLPVS LECYTVPPEDNLALLQLYFRTL
23849	54217	A	23987	291	454	KAETGSLPYTLCKNQFKMD*RL TC*T*NHKNPRRKP*YHSGHR HGQRLHDENT
23850	54218	A	23988	1	613	

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23851	54219	A	23989	807	1345	RCEERLLPLNLAVIALPSGLER WSFFAVYNGHPGSQVAKYCC HLLDHIADNQ/DFTGSAGAPSL NVKNGIRTG/CPEPEVHDTERSE EDDHFIILACDSIWDVMGNEEL CDFVRSRLVETDDPEKVYNEIV DTCLHKGSDNMCVIFLWFPN APKVSPEAAKKEAELGKYRLN SILSDQ
23852	54220	A	23990	344	636	SSLSLLDIWVGSKSLL*IVPQ*T YVCMCLYSSMIYSPGLIYPMVG WLGQMVFVLDPGSIATLTST MVELVYSPTNSVKVFLRLILSS TCCFLTF
23853	54221	A	23991	1	2793	
23854	54222	A	23992	18	409	SSVVEFVDPVRVAPALLPQLPES SSHGSVLPTMAVCLDKGHKMT KNMSKPRHSCRRGRLTCHKFM WDMIREVCGFAPYERHAMVLL KVSCKDKALKFIKKRVGTHIRT KRRQEELSNVPAIMRKADAKK D
23855	54223	A	23993	1	609	MHPRGPPPPAQEESHTDESPGID HQSLARRAGRVGRTGGFSQLL AQNTNSMLSSPASCTSPSPDGE NPCKKVHWASGRRRTSSTDSES KSHPDSSKIPSRSPRLTVKYD RGQLQRWLEMEQWVDAQVQE LFQDQATPSEPEIDLEALMDLST EEQKTQLEAILGNCPRPTEAFIS ELLSQLKETPETQPAISEISLRDH
23856	54224	A	23994	1	204	
23857	54225	A	23995	1	418	MWNRLCNVVTISIGWKSLEGSE EDRKSSQWGTLP SGAVRRGPPS SRSKNGRSNSSLHPVPGKATGT QLEPMRAVMGDESCATGTTEL LHALGAHPLHRLKQHSIMMF QKVQVEPLRKEPHHWQRL*PF SSE*NHGPSR
23858	54226	A	23996	104	253	

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23859	54227	A	23997	666	1436	WRPCFWLQAKKEAPAP/PAKAKVKALAKAKAVLKD VHS HKKKKDRKSPTFRGVPKTLCTRA/KPKCLQKTA PRKNKLDHCAITK/PLTTKSTTKKIEDNNTLVFIVDV KANKHQFKQAVKKLYD TDVA KNITKRWDVTSIITSYIHLRLA SRLALEDLLAGLMNCKLGTFW NEESGERVETRPESRFKQSKLI YTIKNPGRKKYGAEKRAFWC HTDLLLHDHDEQVNHFFSSPST FTKCKRRKPFLREFVWIK
23860	54228	A	23998	2	301	
23861	54229	A	23999	1	242	MGMVRKQALERTEWALVCRQAWSSRMGYSTTVSPTQCQYTC SRGLLDSQLQLYKCTQALPEIH SLGHVCPSLITVKYSHYVLAATA LFIWDDNNESLRTGLLSVSTCK SGRD FMRISGMVSLTSEVDNV EVFHYFPLHIQGGKFWAVGAI MTIFVISIYYEPGAHWHHMWK LLKVYSLESQKREEDISKRLPNF LKSSRRPWEDLILMLRKSPEMS KEYRASPLSLSAALRSKDRQSR HRCVTSTFHIREVRCKSKSGLPLCMHETA AHIC*TEGQQKGSGLLYIP*TSPEIFSASES DPPMAC
23862	54230	A	24000	2	948	CGTPTVVPCTGTSRRVRTATVE PTWKCRAAQPPPPP/PPLWVK LPPPDSTKPELQLEELDADSS WMP LHGSCPTGKLAVDARSSL FTEPAFPYWKKMKHTFQNILS WSKFTNLTVSVTQLWLLV VMA QTSYPHSLVGRKQVILHSSCLY SLDNKTS LAGDDHDDDDHDDN DSSPAEKGPPPTKSLDKADEQS HLR LA VLELGFYKPVNLLVA MTGCLLQLMMKKEQCGTHGG EGSTLEGSRPDV PQDLFSPTLGF YGSTLSADLGENVILKYLPSF PLQESEPSAEHGENLWALYVGF EERSEASLAKAP
23863	54231	A	24001	265	513	
23864	54232	A	24002	513	796	TGTA WTPPPPLTTGAPCTPPPR CTARGRT/PGDHLGGGPAATA GGPRTSPMSSGGPSAPGMRPPA SSPKRNNTSLNLSGLEPTFSFRIT FGFM

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23865	54233	A	24003	1268	2097	TPELTGAISLSTLGDPSFRRQPS AQMGHLLSTSLSTPPTTSNSETT QPAFATVTPSSSVLPGLPQTSF SGMGPSAELMASTSPKQQLPQF SAAFGHQLSSHGIPKDLQPSHS SIAPPTGFTVTGVKLQTFVSVT VLKATCLELFVPPGGFVVSLS GVKLQTVTPLHFGSNHPSAFYY YRLSFEMDKGKKRQFGVEKEK CGSLGGFVMLGNEEMIRRAVT LIAWTKIPFLGIREAKNPGSENI RLATILEAPPPSWELWEQGGPG APYYQP
23866	54234	A	24004	3	1163	GEVTSWNRGRGLRIWRYFLFGP VQKTMRLLSRLTYCWLEQDG RVSWRIGLEIGSLPTVPVRLCP ANRSPPMVCGTTGRSSNSSTE KRMCTCSSRAALHFLKGPEGG TLMEEIRALIKEPPESSLTPSTRG GHSEKAPSKNHQAATVNTTSL RISHISHTHLIHCTGKEQHEPY EDAATRSRPEADLSRHERLTCR HLDLGLPDMQNRQCVPGSQGL RPVGGLEGPRHWCLVRSSRLG VLP RP RPQGCEDDAGGLQRQDC GQWRELVLPTPP/VCPGGASP HPKPLPDLDPFGSSRCFCLLP TCPAAPPAGSPSPCSQSPGCLPP VPTPSVLECCQTVLLEDSPQS HRNSAPHLQPGIWSHIPGSHWP CLVLAAGSTSSV

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23867	54235	A	24005	1	2502	MEARVERAVQKRQVFLCVFL GMSWAGAEPLRYFVAETERG TFLTNLAKDLGLGVGELRARG TRIVSDQNMQILLSSLTGDL NEKLDREELCGPREPCVLPFQL LLEKPFQIFRAELWVRDINDHA SVFLDREISLKILESTTPGAFL ESAQDSVDVGTNSLSNYTISPA YFHINVHDSGEGNIYPVLVNLQ VLDREEIPEFSLTLTALDGGSP RSGTALVRILVLDVNDNAPDFV RSLYKQVPENSPVGS MVVSV SARDLDTGSNGEIA YAFSYATE RILKTFQINPTSGSLHLKAQLDY EAIQTYTLTIQAKDGGGLSGKC TVVVDVTDINDNRPCELLSLT SPIAENSPETVVAVFRIRDRDSG NNGKTVCSIQDDL PFILKPSVEN FYTLVTEKPLDRERNTEYNITIT VTDLGTPLRKTEHNITVLVSDV NDNAPFTQTSYTLFVRENNNSP ALPIGVSATDRDSGTNAQVIY SLLPSQDPHLPLASLV SINADNG HLFALSPWTTMPLRAFEFRNNS PALHIGSVSTAETNIQVTSLLP PRNPHLPLASLVSINTDNGHLF ALRSLDYEALQEFEFVVGASDR GSTALSSEALVRVLVLDANDSS LFVLPQNGSAPCTELMPRAA AEPGYLVTKNAWLS*QLLKAT EPGLFGVWAHN/GTDRLLSERD TAKHRLMVLVKDNGEPPRSAT

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23868	54236	A	24006	1	1960	MEARVERAVQKRQVFLFCVFL GMSWAGAEPRLRYFVAETERG TFLTNLAKDLGLGVGELRARG TRIVSDQNMQILLSSLTGDL NEKLDREELCGPREPCVLPFQ LLEKPFQIFRAELWVRDINDHA SVFLDREISLKILESTIPGA ESAQDSDVGTNSLNYTISPN YFHINVHDSGEGNIYP VLDREEIPEFSLTLTALDGGSP RSGTALVRILVLDVNDNAPDFV RSLYKVQVPENSPVGS SARDLDTGSNGEIA RILKTFQINPTSGSLHLKAQLDY EAIQTYTLTIQAKDGGGLSGKC TVVVDVTDINDNRPELLSSLT SPIAENSPETVVA NNGKTVCSIQDDLPFILKPSVEN FYTLVTEKPLDRERNT VTDLGTPLRKT NDNAPFTQTSTYTLFVRENN ALPIGVSATDRD SLLPSQDPHLPLASLVSINADNG HLFALSPWTTMPLRAFEFRNNS PALHIGSVSTAETNIQVTSYLLP PRNPHPLASLVSINTDNGHLF ALRSLDYEALQEF GSTALSEALVRVLVLDANDSS LFVLPLQNGSAPCTELMPRAA
23869	54237	A	24007	1	966	MGHHLMDKLVALGGLYYAIQ RHYATKCSVLKNDQILVIGLFM IQNVYRKHFANPLSALFLQQGI ELFAAIAEIHITVAERNHAIQI RLEAQTFIDSLKEWHNAIRKSL DYEALQAFEFVRVGATDRGFAL SSEALVRVLVLDANDNSPFVLY PLQNGSAPCTELVPRAAEPGYL VTKVVAVDGDSGQNAWLSYQ LLKATEPGLFGVWAHNGEVRT ARLLSERDVAKHRLVVLVKDN GEPPRSATATLQVLLVDGFSQP YLPPLRAAPAQAQADSLTVYL VVALASVSSLFLFVLLFVAVR LCRRSRAAPVGRCSVL

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23870	54238	A	24008	1	2673	MEVMGNMGSKILITGITSTKRK VALLAKKRERKIISQRKDVTD RAKRQSEESIGKETVVGIGLI SKDSAAAIICESRWLSHFER LIQRRMEARVERAVQKRQVLF LCVFLGMSWAGAEPLRYFVAE ETERGTFLTNLAKDLGLGVGEL RARGTRIVSDQNMQILLSSLT GDLLLNKLDREELCGPREPCV LPFQLLLEKPFQIFRAELWVRDI NDHAPVFLDREISLKILESTTPG AAFLLESAQDSDVGTNLSNYT ISPNAVYFHINVHDSGEGNIYPEL VLNQVLDREEIPEFSLTLTALDG GSPPRSGTALVRILVLDVNDNA PDFVRSLYKVQVPENSPVGS VVSVSARDLDTGSNGEIAAFS YATERILKTFQINPTSGSLHLKA QLDYEAIQYTLTIQAKDGGGL SGKCTVVVDVTINDNRPPELL SSLTSPAIENSPETVVAVFRIRD RDSGNNNGKTVCSIQDDVPFLK PSVENFYTLVTEKPLDRENT YNITITVTDLGTPLKTEHNITV LVSDVNDNAPAFQTQSYTLFVR ENNSPALPIGSVATDRDSGTN AQVIYSLLPSQDPHLPLASLVS NADNGHLFALRSLDYEALQAF EFRVGATDRGSPALSSEALVRV LVLDANDNLFPVLYPLQNGSA PCTELVPRAAEPGYLVTKVVA VDGDSGQNAWLSYQLLKATEP
23871	54239	B	24009	1	993	
23872	54240	B	24010	1	4056	
23873	54241	B	24011	1	906	
23874	54242	B	24012	1	4318	
23875	54243	B	24013	41	1935	
23876	54244	A	24014	3	328	GWQSGPVLGGLCGTAGQSCGD GDGIWWAAQAAGDPAHLRL LTHGQSSVPEAPVRAHQPALP QPRSAARECGR/AGRSTTNSL RKRVAESYMIVAPPMPSSWSS SG
23877	54245	A	24015	114	567	VKKPHSAEWVPLWGLQPGWR QPRCNSGSEKELRRPVNSQEI LSPVTMRKPAVSVCCDLTLREA APPFQRHERTYTGEKPYKCKQC GKAFGFCYQTYILEKAQTGKQP YE/AHERTHWKQNHDCQTFGK AFSSSSI.CIHEKHTGEKLYE

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23878	54246	A	24016	170	491	PAQHQRGLWQSPTHQALTLMLSVHREDWKPVLTINSIYGLQYL FLESKNRWLGLERLGFPCPSGLIT PPTCTGHRSP/NPEDPLNKEAAE VLQNNRRRLFQENVQRSMR
23879	54247	A	24017	1	1062	
23880	54248	A	24018	2	700	RRPTRPGGGSGGGGRMIKLFSLKQKKKEESAGGTGSSSKKASAAQLRIQKDINELNLPKTCDISFSRSQTTLNFKLVICPDEGFYKSGKFVFSFKVGGQYPHPPKVKCETMVYHPNIDLEGNVCLNILRGDWEASPLRLNSIYGLQY\LFLEPNPEDPLNKEAAEVLQNNRR/VCFEQNVQRSMRGGLHPAPPTFERCLKIGLAHTHPPRPQALASPAKYLLGAMG
23881	54249	A	24019	302	884	PMAPLSSQPTLFPNTLTQAQQVQLTKGLRKWMVQHGGDGVVVEENRTTVPGAPSQTCFVTSF/EVNAPAIQSWCKKQVLDLEEGLWPPELLDSGRIEIVSDWWGARHDSGCMYRLLVQLLDANQTVLDKFSAVPDPIPQWEQQCLPFTFTHVFFQHSRWGVRFCVFSEH RGPETHSSGAGPLLSPEQLQC
23882	54250	A	24020	274	866	SLLNLPSSWDYGVVSYEQANCKGEQVFVEKGEYAHWDWWTSSQRTDFSSLR/RPSKVDSQEPKV\YLYENPNFTGKKMEIIDDV\PSFHA/HGYQEKVSSVWVRSGMWVGYKYPGYRGLQYLLKKG DYKDSNF/GARHPQV/QSVRCI HDMQGHQCGAFHPLGTQEELAGQKEQMEQVPFWLARGDICE LSGKKSVI
23883	54251	A	24021	179	374	AASIGRSMTEKAHAGPRPGRN*ADAPSSDTLFPDALLSNQAGRLACWLFSGPQTKNDHFIFK
23884	54252	A	24022	1	141	

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23885	54253	A	24023	1	506	PHSPLWKTL CSPSSGVCCGFVT LFCNDRFACLFQLTPPPSPAWM TAAASLLASLLPALPPLNLQDA KFVEERRKQLQNYLRTVMNKV IQMVPEFAASPKKETLIQLMPFF VMGLQVGMVGLFHFVMMMDQ PQPSLTRADESPCDRVLSPCAA HRKQRDCCLSWKAEPE*FLVK* KTL CSPSSGVCCGFVTLCNDR FACLFQLTPPPSPAWM TAAASL LASLLPALPPLNLQDAKFVEER RKQLQNYLRTVMNKVIQMVPE FAASPKKETLIQLMPFFVMGLQ VGMVGLFHFVMMMDQPQPST RADESPCDRVLSPCAAHRKQR DCCLSWKAEPE
23886	54254	A	24024	1	396	
23887	54255	A	24025	1	1176	MVPGDLSQTSQSLSDFEISN RALINVWIPSVFLRGKAANAFH VYQSQIAGVSGIARKRALIPFGK STFSYVCITNIKLTALPSWDYT CHFNLPKAQKPGPEPTKILTIME WLALLQGDPGSWIQKEFIVGKR GGKMDNILWDQRDVQPPGLRP HQLLHSGGGPLISFRNGGPILV WELRRKGASGKEIVGSRVFRES DEVLVWKNPKTLQKEDEEVNS THPMHTYPTCHCQVFCVTAIEI NTYLQACIVLEMSMLPPGERPLF LLRLTTVLEVTVFDSQWSRPYH VSADPSAWKHHHHYHHHHY QLSSSPITITINHPSPS/LSHASPS P/CHPSPSPAVHHHHQPSITITSR PSPSPAVHHHHQPSITIIRPSSITI INHPSQASSHHHHQPSIPFIVSH
23888	54256	A	24026	1349	2125	
23889	54257	A	24027	670	972	KTDEWNIYRRTYEFRLSHHKLQ NKYPQVRAYNFPPKKAIGNKD AKFVEERRKQLQNYLRSVMNK VIQMVPPSSLPAPKKETLIQLM PLLRSTSTPPRRAL
23890	54258	A	24028	1	699	

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23891	54259	A	24029	221	864	VDCPRSFSAVVVWQGRFWLLS FIPGGFLGMLTFFASGMNWTVT LLGFLAGNLEVEPSDTIENVKA KIQDKEG/PPDQQRLLIFAGKQL EDGGTLDYNIQKESTLHLVLR LRGGMKIFVKLTGKTTITLEVE PSDTIENVKAKIQDEEGIPPDQQ RLIFAGKKLEDGRTLSEAIFLDV GLLLSRTVSSCGAFILGWSVVI LIPVISTRDDTSTTK
23892	54260	A	24030	2	864	PSFRLA WPEGR LALLGELVCVP VVGGRMGNGRILVSA DRSGGHI CLKTLTGKTTITLEVEPSDTIEN VKAKIQDKEGUPPDQQRLLIFAG KQLEDGRTLSDYNIQKESTLHL LVLRLRG/GMQIFP*RP*PAKTI TLEVEPSSHHRKF*RARFQKKE GIPPDQQRLLIFAGKQLAEDGRT LSDYNIQKESTLHLVLRRLRGGM QIFVKLTGKTTITLEVEPSDTIEN VKAKIQDKEGIPPDQQRLLIFAG KQLEDGRTLSDYNIQKESTLHL VLRRLRGGC*FSSHGIRSAQ
23893	54261	A	24031	1	124	
23894	54262	A	24032	97	296	
23895	54263	A	24033	71	269	AAGYRCPCHPGARRTAATRR CHPSPAVARPAGCSGPP*CYAL SPDPARTRRGDPTPPCRLPRA G
23896	54264	A	24034	206	667	STRGLPKCWDYRREPPRAKS SFLTAQACEAQKTGSATRRKD CFLQPTFWLLPFLVLEKGAPSA CRGKRYVRAVWLSLSTGAILQP YPKLQVSNWL*CARDQEMPEG CL*QSCQTL SLLVLPKEKDV *EISPWTPAPPEHQYTVRTFQSP
23897	54265	A	24035	3	190	GTFKNDLILLISKSY*APLPSD FSHSDTSS*KPSKSLKTYSPPPF SAKTSLLQCPRNILEY
23898	54266	A	24036	197	474	SPLSHRGASELLSSLHLRSSCSS PKMAETPEAGFQIVHSASPPQG TAPGNPWAAGAGG*HCEPGQL AGPYRAASFQGA WPPHPRAK LGVS R
23899	54267	A	24037	164	323	GQEIKTILANMVIPRLY*KYKKI SWAWWHAPVVPATWEAEAGE LLEPGRQLQ

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23900	54268	A	24038	582	1166	HCEPGQLAGHILGQPLSSGRLGH LMASHKLSNNYYRTRDGRRES VPPSIIMWSQKALVSG/KPAERV YGDANHTVGNMCA SRLGGYL GFSIRIVVFIWYLGLSVVVNML VGRQCDWQGLVYVGQPELLVFS GNMPGEVARGKHRNEKAPLSM RPASQCRVFCVLKGCSESRHK EQPTDTTIFKNCNTHCEGPWLH
23901	54269	A	24039	1214	3878	
23902	54270	B	24040	62	1242	
23903	54271	A	24041	74	408	
23904	54272	A	24042	790	1877	DEIVDPGSMKWSYKSQLNYKT KRPSVFVLTALHTRPDILILGTLE SGHSRNLTCSPWACKQGTTP MISWIGASVSSPGTTARSSVLT \LLPQSPQDHGTS\LTQCCTLPG TGVTTTSTVRLDEAYPA\WNL MTVFQGEGTASTTLRNGSALS LEGQSLHLVCAVDSNPPARLS WTWGSLLTSPSSNGLVLELP RVHVKDEGEFTCRAQNPLGSQ HISLSLSQNEYTGKMRPISG MLGAFGGAGATALGFLSFCIIF VGVRSRCKKTARPTMGVGD GMEDTINAVRGSASQGTPELN PRQKEQAPQNHGSANALANPP RPEEGEIQYASLSFHKARPQYP QEQAIGYEYSEINIPK
23905	54273	A	24043	183	1176	VHQLVFPRQHQRHSVFPKANSS WIHQLFPQ\QHSYGPSAVSAGQ HQLMVHSLFPQATPAHASISLV FRQGTGHLHRVHQRIPSAQH RHRLHQRRLLPSAQHQRHRDS VCFPFRAHTRPHCDISIQRQHQL MRSIGLFSSGKTDPTVTLLKEA AAEHEICLCRHPVNLRETKAH LGNAAHAVFPRGNQKKPEMCP YLPTHKLVVPTPLIPLEAALRN IAHSRSIPPKKFSPTPDTSDDY LVFNSFPYSKLTTPKTGQGENL GSTRPIPCNGPPTRGPHNGAKY PGDVSHPGVGTWVANRLTG QYEENGKSFLLICTIATFQVNA
23906	54274	C	24044	178	342	
23907	54275	C	24045	86	283	
23908	54276	C	24046	91	177	
23909	54277	C	24047	11	169	
23910	54278	C	24048	209	673	
23911	54279	C	24049	164	208	

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23912	54280	A	24050	182	255	DAESRRSWQPLPEPLRLPRLS D
23913	54281	A	24051	146	456	LKNHNRSEKPCPTLTDIPPQK KCKWVPLALSADITL*KSFSWL ILAQKAPPLSTL*PPLLPAEQM SFDLILFYLPKSYKVAPPLSSFT ESLFGLSPAPR
23914	54282	C	24052	90	215	
23915	54283	B	24053	1	1059	
23916	54284	C	24054	129	215	
23917	54285	C	24055	19	347	
23918	54286	C	24056	228	260	
23919	54287	B	24057	406	602	
23920	54288	C	24058	7	375	
23921	54289	A	24059	322	400	FLLSRVPSV*DPTEENTVQLTW EWL P
23922	54290	A	24060	818	1078	ILDVFSYTMKIEPSLRSPISPH YNL*QLPP*LDP*ESGYKTPLSA LLLTFLLYISSFASHKVSSSSVD PLPTCAYLPIGQAHVH
23923	54291	C	24061	1	411	
23924	54292	A	24062	1	861	
23925	54293	A	24063	425	484	
23926	54294	A	24064	1844	2097	HSAGTKLRLVNFLTTLRLVNS VMRLKKSFMVMVQRMVSIKPV WSISLGLLSFVPSVWDPT/ENR TVQLT*HPLPELELGPRLSD
23927	54295	A	24065	729	807	LFSCSCPPKPPRP*LTAEGGLC IFL
23928	54296	B	24066	1	1317	
23929	54297	B	24067	509	810	
23930	54298	A	24068	1	385	MDLPSTVRVTRSSASVMVQGG SEAIRQRQSSAAKPRRSGKESKS LGPEFQGLWEWLPEIYFSQFRR LGNPKSRHQIQCLMGAFCVV TERLSFQDSDLAEPRHSYPLQ VKRLDLPTVLETDLEKLDPF TTIPSPVETLQCLFVSLRIKSRVP *FWISQPEL*EINFQWQPLPEPLE LWP KAL
23931	54299	B	24069	1	774	
23932	54300	A	24070	350	640	SLQGCLSDNSPTFORCQTQGR LPWSTLSGKSHFSGGVARACY TCQKSGHWAIRNASSPGFLLSR VPSVSDPTENRTVQLTWQPLPE LPLELWPKAL
23933	54301	B	24071	85	331	
23934	54302	B	24072	1	1844	
23935	54303	B	24073	1	1169	

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23936	54304	A	24074	63	220	NLTGNIWNREWYSHFDLLD PVGFGSGSIAKMPKRKLFKCHSV *GHWRSKSE
23937	54305	B	24075	497	898	
23938	54306	A	24076	3	678	GGGFSRDRRTIALQPGQIWM WGIGKQVGGCGWLRGKNRVV GAAKDQSGTGKIFYFIPKAMG AMEGSGQRRTLDPGAHRNPS GGYSATDCEGSRPAPGEINSHA SHTKPVWVFFQTQRMKFGAVT RIGGLPWEVNPPLSSCSLLRE/KD PPTTSGPQSNQPRKH/LTNFKSG A/CYTCKRSGHWAKCEPLPGFL LSRVPVVDPTEN/RTVQLTWQ PLPEPLELWPRLSD
23939	54307	B	24077	522	873	
23940	54308	B	24078	329	530	
23941	54309	C	24079	147	439	
23942	54310	A	24080	3	3889	
23943	54311	A	24081	2	394	
23944	54312	A	24082	1	197	
23945	54313	A	24083	1	205	CLRAGPHALYLLC/NIPEFTFL/S RADFAARSQVLDLLTDP/FQ/QEL EELLQVGA VTLIRILPCLPCLP
23946	54314	A	24084	134	182	SCFIPSSQPVAGTERSRFLGPQY FQTPHNPSGPGGLGNQLMR*AF
23947	54315	A	24085	257	481	
23948	54316	A	24086	415	630	
23949	54317	A	24087	123	340	
23950	54318	B	24088	49	270	
23951	54319	A	24089	1	900	RSRVREVVALLRRGLACIPSLG VWRFPVSGVLA VSDRWCLAVS DRWCLARATLSCFCGAMPYQ TRRQENDLRTASIAV*RRKQQN DH*KQRRWQNIQRKGPKRYIVI AGNSQSHQPMIFSMRLKLPKVT CRDVLPEIRAICIEEIGCWMSQY STSFLTDSYLKYIGWTLHDKHR EVRVKCVKALKGLYGNRDLTA RLELFTGRFKDWMVSMIVDRE YSVAVEAVRLLILILKNMEGVL MDVDCESVYPIV*ASN*GLASA VGEFLYWKLFYPECEIRTMGGR EQRQSPGAQRTFFQLLL

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23952	54320	A	24090	1	812	MARTPGAELAVAKYPKKGSQA VHRHSRKQSEPPANDIFNAKA AKSDMQHREVRVKCVKALKG LYGNRDLTARLEFTGRFKDW MVSMIMDREYSVAVEAVRLLI LILKNMEGVLMVDVDCESVPIV LFYPECEIRTMGGREQRQSPGA QRTFFQLLSFFVESKLDHAA YLVNDLWDCAGTQLKDWEGL TSLLEKDQSTCHMEPGPGTFH LLGESPGISAIVQGAIEKSGERSS PPPKRIGSMKEGPMVLPLALDT QCWFPEVPLD
23953	54321	A	24091	152	1209	MPLKNVQNITHFPLEKELALPL LIFSPLHWCSGYLSLPLNPKP HFSNPLLLQVILPALTLVYFSIL WTLTHISKSDASPGECGS*MG* WEQRNLCP SILPLQSP LCTEAA VEFEGTRMVAFCELCQSC LSD VDTEIP/ESR*VLAQSGRKKA EY PCPPFFRRN*QCHYLPWETFCPF KHFFFSPLQAFVLLSDLLIFSP QMIVGGRDRLRLVFFPEATLQ SELASFLMDHVFIQPGRPGQW CSDSIPGAQ*GLGLGCSKSI*GR KLKSVIPFCLPCEPGDSQEDHLQ IERLHQRRRLLAGFCKLLYGV LEMDAASDVFKHYNKVHQGPS LGFTKPLVMPRFS AATV
23954	54322	A	24092	37	625	SLMLLTPHFHPPEECPPPIA H HLLPFLSTWELFLQQLQEVVV KHAEPVLEAGAHALYLLCNP EFTFFSRADFARSQ/LV*DLLTD RFQQ/LELELLQGRELGAGTMG DTPNKGWGGCKTGGMWDL MSSGGKCYCGIFFSILPSQIED EVYNLGSHSETPLCLLQVSGFP PLPHPVFTGVCVGSLCSFPV
23955	54323	A	24093	2	198	PNDRSRVTREMSAPSRSLGRFL SVGVWHAPPSLALVPPCRCTR L KTYHGRGAPLRVELPTCMYRL SNVQGRSGGAPAGVGHLQSLV DEWLD SYKQDQ/DAGFL/ELVN FFI*SCGM*RNSGDYPLTAPGL SWKKFQGSFCEVGTLCVCRQ YILLHDDFPMDNLISLLTGFSDS QVCAFRHTSTLAAMKMLTSLV RVALQLSLHQDINQRQYEAER NKGPGQ RAPERLESLEKHKEL H*YQAKNLSRARCSTCGASH
23956	54324	B	24094	211	3841	

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23957	54325	A	24095	1	1798	MSLLAFKILVGFEGSKARVQT DLFYRSLVLFLLQICFPLSCFG NWKGEEGGMQRVVLGKNEKI ASPHRLPAPTARFAVSLQNLRI LGAFAQFGPVLFVLWRPLDRDN ASPOSEFLNSCGITAYLVGKRE GGVERGGGGRSSERCRTL SFS PRHSHVFSRFRCKILKKSPGAN GGRCRARGGGLHGARAANPPT PIAEPARLPACLSRAEPEPQAAE PAPPPVGVVRSRPLSHRRHPVV CPAAPIRLINKRLAHSARPAGIC CVSRSGLSALAAAGTASMFQLP ILNFSPPQVAGVCETLEESGDV ERLGRFLWSLPVAPAAACEALN KNESVLRARAIVAFHGGNYREL YHILENHKFTKESHAKLQALW LEAHYQEAELRGRPLGPVDK YRVKKFPLPRTIWDGEQKTHC FKERTRHLLREWYLDQPYPNPS KKRELAQATGLTPTQVGNWFK NRRQRDRAAAAKNRSQTS PWA EAFRFPECGRSLAKHFAEEPGLI PQAQMLLTILFAFRSGRPDPTRS REHLLRRKPQADAPLEM LQQQ VLSQGSGRALRAEGDGTPEVL GVA TSPAASLSSKAATS AISITS
23958	54326	A	24096	3	1034	GLHGARAANPPTPIAEPARLPA CLSRAEPEPQAAEPAPPPVGVV RSRPLSHRRHPVVCPAAPIRLIN KRLAHSARPAGICCVSRSGLSA LAAAGTASMFQLPILNFSPPQV AGVCETLEESGDVERLGRFLWS LPVAPAAACEALNKNESVLRAR AIVAFHGGNYRELYHILENHKF TKESHAKLQALWLEAHYQEA ELRGRPLGPVDKYRVKKFPLP RTIWDGEQKTHCFKERTRHLLR EWYLDQPYPNPSKKRELAQAT GLTPTQVGNWFKNRRQRDRAA AAK\NRLQQQVLSQGSGRALR AEGDGTPEVLGVA TSPAASLSS KAATS AISITSSDSECDI

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23959	54327	A	24097	3	1024	GTRVGVAVRSVRLLLGPGAGL RGGVVLKVSPPCRGRRVPVR AEGARGRGPINKVPGASSGAA VGAARLTAPLLAKAMASKLLR AVILGPPGLGKGAPVCQRIQAN FGLQHLSSIGHFLRENIKA\STE VGE MAKQVYREKVFLVPDIIV TRLMMSELENRRGQHWLL\DG FPRTFGQAEALDKICEVDLVIR LNISFETLKDGLNRRWIHP\PSG RVVYNL\DFNPPHVGIDDVTGE PLVQQEDDKPEAVAA\RLRQY KDVAKPVIELYKS\RGVLHQFS GTETNKIWPYVYTLFSNKITPI QSKESILT\AQWEEPGRCGSFIP IVWCSNWCCCNLEA
23960	54328	A	24098	2	178	
23961	54329	A	24099	96	340	FGALTRIG\DLPWEINPLSSCSLL PEKDPMTSGPQTDPQKEHLTN FKSAARRSSRTSSHRNLLHVLEI WQLDQGMPAARDS
23962	54330	A	24100	3	155	
23963	54331	A	24101	1	162	
23964	54332	A	24102	1	1032	
23965	54333	A	24103	167	476	TAMLLTQSLFGGLFTPTHMKFG AVTQIG\DLPWEINPLSSCSLLR EKDPPTTSGPQTHQPKHELTNF KSDHHGCRASGNSHSGRMLLIF SPSRGLYACSCVKT
23966	54334	A	24104	371	772	
23967	54335	A	24105	146	312	OKRSIPNSSPIP*SHLLANCTK/ DHHFLNGSKSFQQLLSCKFS* GQHLFQGALCT
23968	54336	A	24106	76	441	
23969	54337	A	24107	1	1284	
23970	54338	A	24108	150	371	EESRAAGIPWPSGQISGTC SKL CGRRFRWNAWPLRFRHLEVLV CWRGCGLSHSGKELQLFSLI VHLEGEVN
23971	54339	A	24109	280	351	
23972	54340	A	24110	1	483	
23973	54341	A	24111	129	363	FGVVTQIG\DLPWEINPLSSCSL LCEKDPPTTSGPTKKHLTNFKS SKRPLFTLFSNLPHYPSTSFQFS WRYTSISPFSS
23974	54342	A	24112	2	111	
23975	54343	A	24113	3	808	

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23976	54344	A	24114	497	815	TALLLTQILFGGLFIWTRVKFG ALTWIGADLPWEINPLSSCSLLH EKDPPTTSGPQTDQPKKHLTNF KSACFERIKACYHSPATAWPFK AYKLSLQFPHTCPKTR
23977	54345	A	24115	1	753	
23978	54346	A	24116	1	513	
23979	54347	A	24117	625	701	IHVAHKLAVVMGCKRGCLSL FYFQLIWSHKGWVRSGEASHR EMAGLLLLCSS*PPSPCETLPRS EPSL.CDSRSAESRTKTSNLSCIP ASLQQVCGPREFIWSGNHCHPF LPITRCYGCCLYHYCMENSIL
23980	54348	A	24118	458	605	VVEEGIEDKRVYRLGTTGWIGK TIWLVRRRS*TNL*DLSGFWTG KMGEL
23981	54349	A	24119	566	769	IKEKGGLFSFSASNWLKQVTSS FLCSPPLSLLKSSKLLANRDY RMCGPVPANGNRTQQ*SKHVR
23982	54350	A	24120	345	664	GEIAASQEPAGGFGSSAQPCPL PWTGPPTTQAPGH/CNSAPSSRD NASSNGRRQRVPTVPGGGLIL QREHILLPLGPALRAAGKEPAT AATIPESPGGDSDDSR

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23983	54351	A	24121	2	2204	IDMIFTGPPSTPKHKKSQKGS AFTFPQQSPRNEPYVARPSTSEI EDQSMGKFKVERQVQDMG KKLDLFLVDMHMQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSDLKTIICNYSYETGPPPEPYSF HQVTIDKVSYPYGFADHPVNL RGGPSSGKVQATPPSSATTYVE RPTVLPIILLLDSRVSCHSQADL QGPYSDRISPRQRSITRSDTTP LSLMSVNHEELERSPGFSISQD RDDYVFGPNGGSSWMREKRYL AEGETDTDPTPSGSMPLSST GDGISDSTVPLFLSSEILQKQVG QSITSMGLFLSRGSPMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFSLLSVTSYS SFAFHKFSVAVYNISNLKTVDP AKFPTRYCYCLNNRNTDLSDF ALLVDHGNSTSYLTEIFKSTSIL SVNQSNESDCIFCVMTGKSGR NLSDFWEIEEKYPINITYFTSGL SGVLALLLTQSLFGGLFTRTRM KFGAVTRIGDLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSAARPTFLGGQVPLNPF SFTLSGKSCFPRRQEPNRLFPH PNLLSLCPNPLFCPNPFSTLE GKNHHHPFVSQVFSGLPSP LWEHSPMAHRLRVQPRQQPPDI HKQVISLQSGHSLLVKSQSWSQ DPIKQLPHHHKNTASVCINPSV
23984	54352	A	24122	2102	2529	ETTMSFIFSLLYPFRMHLSFLVS PALRSISRRLAAAFPRGRSLDLQ PAMPEPTPS/CGLLCVPSPPMS AAPCSKVPSHLFAFMSCNTAK VCSFTAASETTSPPGGTNNR RATLRAVTLTRRSATLTRSAA SHRSSTV
23985	54353	A	24123	299	567	TAMLLTQSLFGGLFTQTRMKF GAVTQIADLPWEINPLSSCLL IEKDPPTSSGPQTDQPKHLTN FKSGETKEMHFIRGPKTPAPVM
23986	54354	A	24124	684	822	KVKRQSYSQNTFYYPICSRH*IK LQKLNSGPQTPQQLINLAIV

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23987	54355	A	24125	1163	1826	TVLLLTQSLFGGLFIWTRMKFG AVTR/IRGDLPWEINPLSSCSLL HEKDPPTTSGPQTNPQKELLTN FKSVPTPSVAESFQSSFSTDPSD PSSPPQAAPRQAKPGPNSSSASA PRPYNPFITSPHTWSGLQFHSA TSPPPPAQQFPLKKVAQVKGT KWLKTDAAARSPQKPTGTITDAL DNSHSGGPIMDRPLLKSPKQF LRLLVFSKTFISLTILNLQE
23988	54356	A	24126	636	922	TATLLTQSLFGGLFTRTRMKFG AVTRIGDLPWEINPLSSCSLLRE KDPPTTSGPQTHQPKHELTNFK SDKGDMFYPWTQNSSAGHGLG RQPSLGV
23989	54357	A	24127	728	1013	MKFGAVTRI/IRGDLPWEINPLSS CVLC/CREKDPPTTSGPQTDQPK EHLTNFKSGKRPAFYSLQPPSL SLNLFLLSILAPHFNLSLLISIPF IFW
23990	54358	B	24128	1	3993	
23991	54359	B	24129	105	420	
23992	54360	B	24130	45	2866	
23993	54361	B	24131	1	1680	
23994	54362	A	24132	1257	1403	
23995	54363	A	24133	1	2130	
23996	54364	A	24134	1	725	
23997	54365	A	24135	2825	4123	RAADGVITLEDNDPCVKKDSRR FPYEDRLDLVLKGTADIPRLTV HRGSEYIISRAFPCEYFIKEQSVI NHCYTEIDLKIFRQYLAPALGV THRFVGTPEFCRVTAQYNQDM RYWLETPTISAPPIELVEIERLRY QEMPIYASRVMFIFRPDNTALP RNDTPQMVKLFMDRFQVVKDI GVIELKVVEDQRTAVVMIFRA FVKEGAVIVIRFDNKEVAFQAM SGNLTVPRSTDYKARDIFFQY RFLTRISTGHGVANNHQIRLRL ELAGIVPLNQLNALLKVYPLS KLCNSPKKQCQLESFRLTQWV VKKPISNRQSGLGIVLPGLFRV LSPGNLSPKGTVILPNEVQPGF LGNLVGPI/RGWIGLS*IYLPHGF TG*QNSAGLADH*RASASPERA GVYPIHNERCAHRASRY*YK/W HPDVSAAADHLLG

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23998	54366	A	24136	137	1199	ISSGGPRELGLKMIIVPGSQLSQ LPPGLDSTFEAAIVGNLLDNAF EASLRSDSEGNKIVELFLSDEGD DVVIEVADQGCGVPESLRDKIF EQGVSTRADEPGEHGIGLYLIA SYVTRCGGGITLEDNDPCAPLT LLIVEDETPLAEMHAEYIRHIPG FSQILLAGNLAQARMMIERFKP GLILLDNYLPDGRGINLLHEL QAHYPGDVVFTTAASDMETVS EAVRCGVFDYLIKPIAYERLGQ TLTGFPQRKHMLKSIESATQKQ IDEMFNAYARGEKDELPTGID PLTLNAVRKLFKEPGVQHTAET VAQALTISRRTTARRYLEYCASR HLIIAEIVHGVGRPQRJYHSG
23999	54367	A	24137	2	243	RPGRGLGQRGIWEPAAILLDSV AQQQGAWLPHVADFRWRVDV AISTSALARSLQPSVLMQLKLS DGSADLEKRCERRLQD
24000	54368	A	24138	1	1483	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPPEARITRRWRIG EAAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRLRAEDVFPPI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNPDQGT SMYHGWVVDLHIHAEDTL LPLF YLGEKDDVTYAIKPTCWPGLDI IPSCLAHLRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGTINVVCAADVLI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGFEPSDLRYLQSC EWGDTGIFLKWSCIPAEKGLQT SGAWVEAADIPLLPGSPRRLSP QAGSRGGQGPKHGQQCLKMP GPAPGLQGGSNRDP/AP/GPAV ERAPAAALSSTTIWMPMSLCP WRPVLAACSTMTVRGRSTMYL PTTTGNAGCTWPKASLATRWL SSPMGRQARSLMLGAQVTL SW DRSMPPWRRGRSSGRNLSTI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
24001	54369	A	24139	727	1498	GICIWDRPPGLADQRRSHSHGW WGELATPLPWIII/HLSDSHSGV RVSLGAQLPPEVAAMARLLG DLDRSTFRKLLAKFVVSSLQGED CREAAAAVLGSAPTCCRVAAGC LLAGMHTLLQQAIRLPPTSLK PDTFRDPAAGALHPPRPGRGLAG QRGIWE/PSGPSFDSVAQQARV AWLPHVA/DFR/WRVDVTISTV ALARSLLQ/PSVLM/QLKAFQNG SSIPAFEVPPQPKFQELRYSVA/ LVVLKEMADLEKK/C/ERNLQD
24002	54370	A	24140	1	312	
24003	54371	A	24141	2	524	
24004	54372	A	24142	144	494	AGSCPFAAGPGLSGRCFVLR FILIQNRAGKTRLAKWYMQFD DDEKQKLNEEVHAVVTRDAK HTNFVGVSGTFKIIPLPLCWPL LASVWMFNDNKPGLYLGGPFH NFRGRS
24005	54373	A	24143	1	428	
24006	54374	A	24144	108	422	
24007	54375	A	24145	3	387	
24008	54376	A	24146	3	337	TRLMLLDRSQGKVVYGLVGR* RFQMQMDVLEGLNLITIRNRN KLRVYYLTWLRJIKIMDNDPKLE KKHDWTTAGYMEGCGHYRVG KYERIKFLVIALKSSAEVYAWA PKPY
24009	54377	A	24147	1	340	ERTRMNKQHNSTLAKSRPGNT GPEPLMPQASPGPPGLSQTPP MHRPVPEQEGPHKSLVAHRVP LKPYAAPVPRISLQDQDPTRN LAAFPASHDPDAIPAPTATPSA RGAV
24010	54378	A	24148	335	869	ATPTLLISQKSHFWPQLSSVLLK LTSGPEISLQSSPSPICRMKKRR LSPLASGLS*VKSGEWCEVLS RAPLFP/HNPSQAAP/EWEMQG TRPSIPHPLGLAGLPTQLQQGRL WGYRNPASPFRTRVAARDCAAG KQVRTGPDARLEGSRPGVRAG LGWGRGYSERVQTCAKSSVSPS
24011	54379	B	24149	158	5640	
24012	54380	A	24150	1	1854	

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24013	54381	A	24151	1	1510	MPCGKGQNLQVPGSKVLPGLG EGCKEMWLRKVYIGGEVWVK SPEPEFPSLVNLCQSWKINNLM STVHSDAEGMLSYFLFEELMRC DKDSMPDGNLSEEEKLFLSYFP LHKFELEQNIKELNLADQVDT THELLTKTSLVASSSGAVSGVM NILGLALAPVTAGGSLMLSATG TGLGAAAATNIVTNVLENRSN SAARDKASRLGPLTTSHEAFGG INWSEIEAAGFCVNKWKAIQG IKDLHAYQMAKSNSGFMAMV KNFVAKRHIPFWTARGVQRAF EGTTLAMTNGAWVMGAAGAG FLLMKDMSSFLQSWKHLE/DG ARTETAELRALAKE/LEQELD RLTQHHRHLPQKASQTCSSRG RAVRGSRVVKPEGCLATSQPH QHQQERGDRPREDTNEKRGG EKWSDFGSVLKGEPTGFVHGL DLWCEGKKSQDNGGLWPEQL AGWSCVHLKWTGGSRSLPV VLDAACTGTLSPLDTSWRYHPS SIPLPKQLQHGF
24014	54382	A	24152	3	515	VGQTAGAAPGPVQFLSSAWVA L/HETELPPLTAREAKQIRRE/IS R/SSKVVMDMLGDWEKYKSSRK LIDRAYKGMMPMNIRGPMWSVL LNTEEMKLKNPGRVYQVRSARA OPTGQAVSQAQVSSWRERQDH PGELGVKIMKEGKRSSEHIQQ MDLDVSGTLRRHHIFDRDYG
24015	54383	A	24153	1	1317	
24016	54384	A	24154	1640	4841	TITGSSPLAGGHHSTCRGRMDM VENADSLQAQERKDILMKYDK GHRAGLPEDKGPEPVGINSSIDR FGILHETELPPVTAREAKKIRRE MTRTSKWMEMLGEWETKYKHS SKLIDRVYKGI PMNIRGPVWSV LLNIQEIKLKNPGRYQIMKERG KRSSEIHIIHIDLVRTTLRNHV FFRDRYGAKQRELFYILLAYSE YNPEVG YCRDLSHITALFLLYL PEEDAFWALVQLASERHSLPG FHSPNGGTVQGLQD
24017	54385	A	24155	1640	4056	

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24018	54386	A	24156	479	3902	GQVDEDVSVKMDTVPVYNLSC ILNEMRDQDKLVEKSYKDAK GCFSSMGEPSLIDPCLEVICYGT QLAQLQGLIRSMEQQLCELCCD AEHQDHEHQVLLDVKTRLEQEI ATYSRLLEVEDAQQGPVIMRA MTSECHWCLAPIRSPDCVCVLR QLHTRSGLIHKRFGKLGFLPER HNPGQLIHQNSGCCSRMYPFD RKLGISVALNIPGGRSYRDLWC LTAVHHIPGIDHRLFTLGRM DMVENADSLQAQERKD
24019	54387	A	24157	780	983	QHQSGLGHKYQRSHRSL*AEPE* LECHQPDLAEPADGPPLTRYG IVNAEMGLEQLLPKGPSLKEAK
24020	54388	A	24158	773	2016	DWPTLRENKREPTLKYWGLVP LISGMPTWFFFLSACGNLIPSG GIRVPMENMLRVFRAVEEHCP WFPEKGTLSVEQWDSVGAQFQ ELVPTGNYVPITVWGDWALLL QFSESGDPLPLQLSSPTGPSLS DQPLPSPTPPPPDDVENSISNSG DFGLTLPPGDLLFPPEPLAAS AAPNRTALGHIYANSSLFKPLQ HLPLESANGSGAKLQFTYNSAG PSPSSAAPRPVVSVQPVTLP TQAASLYPSSHMDTSNHQCTSA SSAPPMPLSHTLIPSDETTCNVF NYPLKKPTGRELREAKNKGSPQ KVHEKTPNGNRCISTEERPHEN KGFNHLLEWLAEKTTIHLDC WFIKDVNREQPDGRDAGDKR LCVKFLREIAANTYKTEVGAAK VMEILLHSHGATTIAN
24021	54389	A	24159	365	675	
24022	54390	A	24160	1	1191	

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24023	54391	A	24161	363	1434	QQGVCSGEKGGHWAPRQVGV YLLPGRVGVCSRVSPSPFGDG LD\$GLARRGS\$V\$ALASGLVEE PMLGPPPHPTPRFKA\$V\$AKSKE DLVSQGFTTEFTIEDFHNTFMDLI EQVEKQTSVADMLASFNQST SDYLVVYLRLLTSGVYLQRESQ VLRALHRRVDGTVQRSSAKQE VEPMCKESDHHSHHCAGPGPS ACPSRVGVHGT\$AARA\$APPIRTS F/H*GV\$PSK\$VYLLYRPGHYDI LYKLGLGSSPLGCPGCPLLARA LGHCYRGFSVVVNGPISPPSSCH MTPPPCFIKGGAGGPECVRVPA LLPAWLLCLLPPPRWVPLLF YLLSFPNRSRFEGPGLLEAPPA SLGSASFPS
24024	54392	A	24162	2	888	VFRSRHQGCLKMAAEEPQQQN QYPLGSDSEGVNCLAYDEAIM AQQRDIQQEIAVQNP.LV\$ERLE LSVLYKEYAEDDNIYQKQIQID LHKKYFVHPQDQGLTGTCFYS GFRDSPTWEGTCWIDSKELQRF QGLVS/SQRSKGKTLVSQGLSL EFHNFEGFSTTTFI/VDLIEQVEK ADLCRRPCLASFNQSTSD/VL VVYLRLLT/SRAYLQRESKFFE FNEGGRTVKE/FCQQE/VEPMW QGEATTSTSLALAQALSVSIQV EYMDRGE\$GTTNPHIFPEGSEP KVYLLYRPGHYDILYK
24025	54393	A	24163	3	819	EGATMAAPPQPVTLLIFDMDG LLLDTERLYSVVFQDI/CHRYD KKYSWDVKSLVMGKKALEAA QIIIDVLQLPMSKEELVEESQTK LKEVFPTAALMPGAEKLIHILR KHGIPFALATSSGSASFDMKTS RHKEFFSLF\$HIVLGD\$PEVQH GKPD\$DIFLACAKRFSPPAME KCLVFEDAFNGVEAALAAGMQ VVMVPDGNLSRDLTTKATLVL NSLQDFQPELFGLP\$SYLEGRA SVFRQPPTLMVHTAGGKGKEIS NSSIPTCAVILAS
24026	54394	B	24164	115	594	
24027	54395	A	24165	4	160	SIIFPAIPVSLK*IKPNCPEPPPDH LLQAAWGCVSLGQGLSYSALN TLLYFT

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24028	54396	A	24166	88	2280	VPLYDRMGGETGLLIPSPFRSL HAATDAHSCKNRHSLTGKTDS LWQQDTKLQTRPKATQGGKES GGCGPHRPLLLLRTKSTPESKS AHDPPVAPAQAGASGCGRGAA QKGFKAACAVDGGQDRDTPG VPAAGPPTSSGRGDRGPSSRR TRSQTPESPTGRPGSRQFQAAPP PSHHSRPAHAPFPGFQMYRGPL YSSSPAPATPNTSAYESPRFCST SYISSSPRFCPTSYICSSPRFCSTS YICSSPRFCSTSY
24029	54397	A	24167	2	352	WRITLIVLGMSCLSGYPK*MHLT HLIHCs*EARSLVTLHIPLTICG EPRNIKLVCGP*IQWKK**KKI MNSRLSPFSRSRY*TSNLLGLP *LRGLSPVERELKLWTRHKL
24030	54398	A	24168	2	252	NKSSVFATSCSLDPIMSLM*W TSVISCRSKK*SRSLRIRL*HKA KELIYPLPVRESMWGYCQLLS MSMPIMHAGTGEMTTG
24031	54399	A	24169	1505	1680	RTSSSLVTL*TLHEPAGT*VLTP GSTTGITVSGTVLFLILLSCLFSS TPFRLKLACLS
24032	54400	A	24170	681	932	
24033	54401	A	24171	1740	1950	HHHHLLQMSWSAGMQAWHW PSFYNVVTGKTLA/LPNLIALQH IPLSPAGVIKRPAPIALPNSCA ALLSSQ
24034	54402	A	24172	1	652	GKLTEARTCCMQLTSDRHRH TALNHTTCSHHCSGVMAGRL GPITVLSGDGPKGMRALTMW HTLARPTGDLEAPRHGRPRIT ATQPDHAPPATSRNRAAPHN HTP/PHPQTAH/PTATHSHLTYR TPRPPTARTPL/HPHSHQQYPY Q/PTQSPYLAHPPAPPHSLHPS TTRATVNAPDTRPTIYARESVPF GRLNLGRQGMELANILQVH GP
24035	54403	A	24173	267	400	RFLHCGNLAGLVLGFLSFKLGE YEGGLPLAALTAGKGLFFLPLE SRLRLHRRPKRSPASFG*VSRH THAIHFN
24036	54404	A	24174	422	452	
24037	54405	B	24175	131	1047	
24038	54406	A	24176	2	199	LGLR/CARLEARARPPWATVRE KLWLFHGHPTHMRCSSWRGLFQD DLGLQKPLSGSSSAYRGCE NS

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24039	54407	A	24177	440	1746	RNLQCVFQGRKEGIPVLALS/L RPSPIRVLHTATKQKNSCOHLE EDVDQTKWRDTDTPSMDKILME EVKLEEQLEAVEEDKQALAD TEGSEQSSQKLVEEGNMYSIQG FCKDSLEVADVLEKATQCVPEE EIKDNNPHLKNLCETLTMSEEL SQMVDCCRLPQDVSVLGVALH WVTPQMLCVPVNEDIPEVSDT VLKAITAPPRVPIGRTSGDVTGT GVRRRRVSSAMSQHRAFRDVT VTVQCLELGCFLRLVELASQFL KRPRSPESNEKVPEIEVTVEASA KMSHPTLYDATRSPWGMFQSQ SVLLSCAHHSLLRGATLDRCGS IDEESEWYGMDTFECTGVGVSI RRATEPERSSGSAAALDSHRSM HPIVNHACEGSTLRCPYENLMP DALSLSPILSSRSGDASPPQAEILP VVGPFMRMRCLTVDPPLDVT
24040	54408	A	24178	391	656	

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24041	54409	A	24179	1	2150	MEDSTSPKQEKENQEELGETRR PWEGKTAASPQYSEPESEPLE AKQGPETGRQSSRPSPQSR AKTPLGGPAGPETSSPAPVSPRE PSSSPSLAPARQDLAAPPQSDR TTSVIPEAGTPYPDPLEQSSDKR ESTPHHTSQSEGNTFQSSQPK PHLCGRRDVSYNNAKQKELRF DVFEEDSNSDYDLQQPAGGS EVAPSMLEITQNAKAYLLKTSS NSGFNLYDHLSNMLTKILNERP ENAVDIIFENISQDVKMAHFSKK FDALQENELLPTYEIAEKQKA LFLQGHLEGVDQLEDEIAENA LPNVMESAFYFEQAGVGLGTD ETRYRFLALKQLTDTHPQRCRF WGKILGLEMNYIVAEVEFREGE DEEEVEEDVAEERDNGESEAH EDEEDELKPSFYKAPQAIPEES RTGANKYVYFVCNEPGRPWVK LPPVIPAQIVIAKIKKFFTGRLD APIISYPPFGNESNYLRAQIARI SAGTHVSPGLGYQFGEEGEEE EEAEGGRNSFEENPDFEGIQVID LVESLSNVVHHVQHLSQGR NWFNSIQNEEEEEDEEKDD SDYIEQEVGLPLLTPISEDLEIQN IPPWTTRLSSNLIPQYAI AVLQS NLWPGAYAFSNGKKFENFYIG WGHKYS PDNYTPPVPPVYHE YPSVPEMAEMDDPSVEEQAF RAAQEAVLLAAENESEDEDE
24042	54410	B	24180	1	489	
24043	54411	A	24181	39	423	RSPTPDAASRSQCSSRRRRGVS KEVFSVSMARTKADWPANRTG G*STPRKPTGPTKSPLRKSAP/A PTGGGERNPRLQGLVTVAAP* NLDGYQKVHNSFLIRKLSLPSV WVREIASGLLKQNLRFQERQ
24044	54412	A	24182	3	384	
24045	54413	A	24183	1	434	MLQNVTPARAEWQRKTALQG VEDPVPARPPISSPEDLLRS GECSTAPTQRQVPQPVHE/SHRPTQ DSPGARRKPTSERGHTEQRAAP DREARPATRGWGLRPGGWLG GSEHAAAAPGSDHPRGRCRH HTILQRPLLSGKTES

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24046	54414	A	24184	15	286	LPSRGAWLGTCSPPCLSLPPP WAPVRPEPPR*APPPAPRRPVPS TTQGLSGPHCFYEL*HSPRRSA ASLLKPARPRAHQEERTTPDAP P*EL*HSP*RSAASLLKPARPRA HQEERTTPDAPP
24047	54415	A	24185	2	214	CLSLPPPPWDPVRPEPPQ*VPSP APQHVPSTTQGLRSVGARRGT GRQLHLQSRGIIHWVKPAGLL SLGL
24048	54416	A	24186	308	311	LPSHGAGLGTCSPPCLSLPAAP WAP/RVARASPTSAATPQHVP PSTTQGPLGSPSTLRKL*SFALC NKSCCCLFGSTLPL*AVTLTA KVCSTPKA\ARP
24049	54417	A	24187	1	669	MMNEGSGISLSCDLGTALQLL SQAIVECLKLFQMLNRSTILGSG GQQPSSHSTKLRPDSGAQLAS PSGCTGAAGGAACQSRITVCSH SSALGWSMGLGAVEQGVVLV GEAQAAQEPMEGVGGSGMAG CRSRALPHGKAARKARAEHST GGLALLGDPVHSPQPLARVLSP SLPRASAGW/PAPSAGPPSPHP PGTPAGPQAPHAAPVPARASPS TPPCKL
24050	54418	A	24188	157	395	RCSSCQREMTPYGK*NVQKRL KTTKNGSM*LKSHILSTPEQPA SPTSS/PLLQPAAPAPPLMPRPS PPPGISVA*YPGM
24051	54419	A	24189	2	287	CLSLPPPPWAPVRPKPPR*ATPP APRRPVSTTQGLRSAGARRGT GRQLHLQLPCGIIHWVKPAGLLS LVGTWRTFMSSSGIVNTPISTLC LAQGL
24052	54420	A	24190	500	724	
24053	54421	B	24191	1	2154	
24054	54422	A	24192	688	1215	SRLAPALLSPVVVDGTGRCGA VGGAHWGGLGRTGAHGGGGR LRHGGLRVSPAPREGS*GPPR YRAQRWWAGT/DWRTQYTLRS CWPGTLPK*REMTPTYGK*NV QKRLKTTKNGSM*LKSHILSTP EQPASPTSS/PLLQPAAPAPPL MPRPSPPPGISVA*YPGMPWTC PFYWQ

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24055	54423	A	24193	308	1131	VLQLLRRTWWSCLRAWSDWL IVPPGGLVVSASGVKLQTFVAV SVTALKEARLDLFVPPGGLVVS LASGVKLQTFVAVSVTAHKSSV DPKNSGQALASPSGSRTEAGG AACQSRVVRSHSSALGWSMGL GAIEQGAALVRGGSGRTGPME WVGSGSMAGCRSRLPRGKA AKAQREIEHSAGGPALLGDSVH PPQPLARVLSPPLPASRACWL LRVRGPPSPRPPTAGPQAPH AAPVPARASPTPLVHLTNDV LRVKVKWAFFTLHK
24056	54424	A	24194	192	818	SWCLSRVAVGDSMTSEVIED\E KQFYSKA\KTYWKQIPPTVDR HAWGEGPNKTGTSCALDCGAG IGRITKRLLLPLFREVDMDVITE DFLVQAKTYLGEEGRVRNRYF CCGLQDFTPEPDSYDVIWQIW VIGHLTDQHLA/ESFLRPCKGQ ASAPNGHIVIK\DNIA/QEGVILD D\VDSSVCRDL\DVVRRI\CSAG LSLLAEERQENLDP
24057	54425	A	24195	1	233	FFFFETESRCVARLECSGAISAH CNLCLPGASNSPASASQ/CSWD YRCVP SRLANFLYFSTDGSPC WPRMVSNLLTS
24058	54426	A	24196	240	476	LLPQYRRVLLIYSGIQLPLGLGL RRRMCPGIYSFLDLFLVYLRRG VYSIL*W*FV FVVLVPWFSAPS GHLRSSLCCLF
24059	54427	A	24197	288	677	NLPEDVVPDDKPHQPLLRAVC LFVISKDLFLESPPESPIWRMYP NSTVHIQRLELALLC/CHCPRAL PASAHSCHSLERGLPICKE**CM PCSEYTIASQRQAGGAPAILPEC DSRRRTTQATSEPGSHI
24060	54428	A	24198	99	399	LLCHGFEHPPLAQRSLLLPIV*S LLLSTRQSHSPSSFVPLLARSCG SWVSPAEEAEPQILQKGKCSCL IVPLEALCQRGTRLSLWLPLTF PSFQLWPV
24061	54429	A	24199	1	586	LSFFKVFSSFAIGSNILFSSEKFI TDHLKPSSPTCQSHLSSSFVPLL ARVAFRWGFGVDVLSFVSFSPN SQDPQLQVCGVCWRSTPDRLP GYHQRSGGCGRTADIEPQMLR LIVRLEVLSQRSTRPQRCSA/L LGASQLGCC/GVRDLLEEAVC PFSDL/KLHAGKTTLTFKAVRQ/ SHLSLQRLLLSFVCLCPT

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24062	54430	A	24200	1	822	
24063	54431	A	24201	1428	1801	RSAGIDPE*FFSG/PRRIHTASCL PSQRSSNRACSSSVTRIVSILSRF IGIITPMNRNPRFWRNSTSWTR MNRQTSVNRFTTLLMSFTAAA SRVSVMTVKTSDDTCSSRRRSQ LKKYHLSISTQVL
24064	54432	B	24202	1	2040	
24065	54433	A	24203	176	564	AWPEKWSYTTATRTTHFWMRS RSIMSTTKAFSTNSASDSLEEP SSRKTRSSSLQ*KSCNGGSEM SSTYRVVGLTGASLSASALNSLI DSRSNR*VFSRNTLANITRRNQ LKMPLAPDPDGSSGSPFQ
24066	54434	A	24204	1	774	
24067	54435	A	24205	1	1807	MPLRAFNPVSSFRWARGMTIV AALMTVFFIMQLVGQVPAALW VIFGEDRFRWSATMIGLSLAVF GILHALAQAFVTGPATKRFGEK QAIHAGMAADALGYVLLAFAT RGWMAFFIMILLASGGIGMPAL QAMLSRQPNFDHWTADRHGD LCRLGEHMERVGMDCRRRPIPC LPFRVASRCMEPHLDLNGSRR HLANGFTTFRIGANQFLRRTVN AQTNPWQNISIAISSSTRTRIS GSVGSWPRSGNAEVSALHHYV PDLHRRMLLATLWNTYICINEA LALTLSDFSLVPPHPYRQLFTLT TFHNRACSSSVTRIVSILSRFII TPMNRNPPYTEASVTKEKTAL NMARFIRSQLTLLLEKLNELDA DEQADICESLHDHDELRYSLC ARFGDDGNSYDHDYAKLACLQ VEGRGGGTFAHELLAVEYAGW ISPAFLKVMHWMNRMMLDAR NRDRYKQWKQDFHDSYNRQS AGHILSQCANLAATTSEYFIHKP HRLIAAETGYSQSTVVRAFREA VNGILSVEIVIGDHRERRADL YRFTPSFLVFAQQAKNALIESKS KISSAATKVRLLAPISPTSPMG KIGLATSGS
24068	54436	A	24206	291	851	
24069	54437	A	24207	2	694	
24070	54438	A	24208	2	331	HLSTIEPEDYNLLFRRVSLKLSV WLPTWQSKSNGWSKKCLWMH LKSNNLALLPPAGF*SATMPK CSAWAKTISSPGCVITEF*SQPV NAGTSPNKNNTLVGISPLKKP
24071	54439	A	24209	1	4455	

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24072	54440	A	24210	698	1088	LTSKFIAAVCMRRISLCGKGS QNTD SGIAATPCSCVSD*QNST SRIRM*PWMCPMPMKRSAT*N ITLRC*RAAPISSRVRK*/MSM Y/NHLQSAECGGHRPFVPQEE SILLLLHLIANRSSACHSIR
24073	54441	A	24211	1	1902	
24074	54442	A	24212	1	2898	
24075	54443	A	24213	1	2604	
24076	54444	B	24214	1	1254	
24077	54445	A	24215	1	2946	
24078	54446	A	24216	698	1285	RFWRNSTSWTRMNRQTSVNR FTTLMSFTAAASRVSVMTETA MTMITPSLHACRSKAVAAALLP MNC SLWSTQAG/CSP/DVSAEG KPD IYRLSNRKITTCYSAES/LL KLSVWLPTWQSKSNGWSKKCL WMHLKSNL NALLPPAGF*SAT MPKCSA WAKTISSPGCVITEF*S QPVNAGTSPNKNTYLVGISPLK KP
24079	54447	A	24217	1	1986	
24080	54448	A	24218	1	2262	
24081	54449	B	24219	1	1014	
24082	54450	A	24220	1	1155	
24083	54451	A	24221	5	386	
24084	54452	A	24222	1922	2146	SSSAGISCWSSSPTPGSIPSRVGS AAA*GWTTSSRSTGSANPSASR KPAAAIRASMPPNCRSGEARWP LWSGSL
24085	54453	A	24223	1091	1435	
24086	54454	A	24224	1	2919	
24087	54455	A	24225	1324	1502	
24088	54456	A	24226	1	2901	
24089	54457	A	24227	5	253	
24090	54458	A	24228	1227	3031	

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24091	54459	A	24229	1	1940	MNRQTSVNRFTTTLMSFTAA SRVSVMTVKTSDDTCSSRRRSQL VCKRMPGADKPV EGRGGGTFA HELLAVEYAGWISPAFRLKVN QTFIDYRTGRLQPAIPQSLPEAL RLAADLAEQKQRLQKMLMD APKVEFAERVATASGV LIGNYA KVLGLGQNYLFTWLRDNGILIA TGERRNVPKQEYISRGYFTLKE TVIDTSNGSRISFTTRITGKDVV RTTSIVMLAKVTF LSCITMSDFT FSGYELACFVTHSGLSR SAGHIL SQCANLAATTSEYFIHKPHRLIA AETGYSQSTVVRAFREAVNKG I LSVEIVIGDHRERRANLYRFTPS FLAFAQQAKNALIESKLKISSA ATKV KAVLAKTLALFNFLSTPP CQNDTPSPCQDDVAIKNKKSQ VKKTKRSVSGGAGTTSLKKLTS WIAKAKAKADNLR LSKKRTQK HEFKQKVEAAARKYAYLKNKR SPDIGGISNFDNLPHCMTVNEA LNAVLAKNKDNEQWGA VAGA YIADITDGEDRARHFG LMSACF GVGMVAGPVAGGLLGAISLHA PFLAAAVLNLNLLGCFLMQ ESHKGERRGELLKIVVLPGDHV QGEITAEAIKVLKAISDVRSNV KFD FENHLIGGAIDLQGGGGK PRCVSKSLMLHCTR
24092	54460	A	24230	1	1230	
24093	54461	A	24231	1	799	MKPRTYTVSVTAVKDGVS GVC SFRCSDVSRVSSFQWVRGLADF RSEAADLHNSGAQLASPIGSR T GATSGAPCQSRTHAPALLSLW AVDGTGRHGAGGSTRRQGGSG TQEPMVAGKAQAWRAAGFSG SGDGVGV SILVPWGGTCIGSFR QANSWISGGAFSDAGCDS DRL GKDWN SLEGSEERKMWESLE LPRDLKSSDRKMWESLELPRD LLNGFDQNA D TICTMKSLRLW SQMEMKNLLGTGVNVT LVM L* QRDWRHLLLV
24094	54462	A	24232	416	775	
24095	54463	A	24233	548	882	PGGHQYPPCHLEEKETD LPLY TAVEEKG LSYIIPGSLVEKPLT STNSSGTPIQSNITSL* IPLAGIMS MAASQN*AI*WPLAPTMQSFTC TT*RLS*SHRRS WWHRGCT
24096	54464	A	24234	144	570	

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24097	54465	A	24235	254	1117	LSRMKRLRTLVSVTVLKDVVS GVCSFRYSVDVSGVSSFQWVRG LADFRSEAADRLGLKLQTFVVS VTPHKGSDPKSDQQRDLQR VKEQNFNRNVKGDPAALAHEDD VNGTESGAPRKHGDRDLDDVV ITNPHIEAILENKDWIEDASGLM SHCIAILKICHTLTKLVAMTM GSGAKMKTSIAVSDMIVVAKW NSPRVDDVVKSMYPPLDPKLL DTGTTTLLSVSHLVLVTRNA CHLATGGLDWDQSLSAEEH LEVLRREALVASEPDKGLPGPEG FLQEQAISAI
24098	54466	A	24236	472	844	RTDGLVWMSFLVFSFNSQD PQLQVCWSLLEVHSRCLPGYQ QWRLLCPHEITGESMSKLHIIQK YTSSCCLFKSSISERGSSTPCPSW LGSGEGLSTLHATDFSFSAPMA QRGKSSLVSL
24099	54467	A	24237	206	456	
24100	54468	A	24238	50	392	LGLLPFFHRCPTQRGGI*RGSLA TAALLSCGGLCPVGS/SRHLCL/ PVRGKRPTQASVMGDALPPTK LECPRSASGCCAGSDNFKPVDL SLLSSMGLGSTELDLAPWLQP PFQ
24101	54469	A	24239	1	204	SFSVQFCSLVGDPLG*SSCDPLE EKRCSGFWNIQPFCAQFSPSLW DYLVLVFDVDDLQMRSLSGCPF
24102	54470	A	24240	1	375	MCNAQVLEYMGKSSSLTSDL QLVRDALRSLRNSFSGHDPQHH TIDSLQGISSLMERLHVMTQ KKQERKPLVIPRQT/VWWSGP PANSNRPAEAGPDC*KEN*RDA LRSLRNSFSGHDPQHHTIDSLQ GISSLMERLHVMTQKKQERKP PLVIPRQTGSGVDLQQTPTDLQ LRDLTVRRKTNEQKGIASASTK RTSTPKPHL
24103	54471	A	24241	1	674	MVVYACSPSYLEAEVGGSLSL VEATNPKNSSKKFLDLISEFC VSGYKISVHKSVALLYTKNDQ AATQIKNLIPFTTAAQKFQYF YLTKKEERLKPSSKKITKKHTK KRTASLILHAMICSQIPKQQQNE KYQVPQFDQSTIKNIESAKGLD VWDSWPLQNADGTPPLVIPRQ T/VWWSGPPANSNRPAEAGPDC QKEN*QTERNSINIKKKDIHTKT PLCI

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24104	54472	A	24242	1676	1768	
24105	54473	A	24243	270	471	PSREYQDANPWLKWKYVSRT LNKSDCYASGYK*A ¹ CLLC ² SVYS HGKAAGECTLSAGSKNGLA ³ EVI KK
24106	54474	A	24244	23	200	AQMKAHGRSRSS*RC ¹ DEEHWR ACRAQEPPCSQSQRERSKRTCR QGTVASKVKCHSEAR
24107	54475	A	24245	3	270	ASTSHVPQPCGLDDLAIRHSAV RLNRERVHSTAVLP*EYTKQRR QGHL*PDPYKKEGAATNEDAL LLRWERGRGARLHIPGCKAPQL
24108	54476	A	24246	135	275	
24109	54477	A	24247	365	583	
24110	54478	A	24248	2906	3114	
24111	54479	A	24249	108	405	NLHTPYRQSLGQGEPLDDYV NTQGAS/LFSVTKKELGAGSIEE CAAKCEEDKEFTCRYFHCRC ¹ TF LSIPQVTSFLCFPLPL ² LKSSK LLANRD ³ KYRM
24112	54480	A	24250	1	386	
24113	54481	A	24251	1	808	MSYSQCVSPDKAHGILPGYHC WLF ¹ RDQGL ² LK ³ QSHVINPAKAST GFFLQDTLMVLEIKTIRNYYK HLYAHELERLEEMDKFLDTYT LRL ¹ LSQEV ² IDSPNR ³ PIMSSKIESV KGYTHQ ¹ QFCH ² KSTLNK ³ GDRVI DNLTCPPYCCVWFPLAGTGPHI LYLSRLVSNLEL ¹ FKRGK ² RGREQ RKEEVT ¹ CGMLR ² KS ³ LVTS ⁴ DLPEP GGVTSEGCETAKVTACSSLWE LCHREVLTPYCPKDT ¹ CRK ² WLE TPVRRSCPVR ¹ SRIST ² CLRK ³ KFG HILAEQLSCA*RCL**FL/YGCFY FQDHECVLKEESSTSFGRINHV LTLKEPLVPE
24114	54482	A	24252	833	1245	ANMFP ¹ AF ² AA ³ VAAGA ⁴ ATEAAA AAAA ¹ AP ² LAP ³ ARRAAAA ⁴ ARG PPLPRL/WSCAEV ¹ MYHP ² QPYG ASQYL ¹ PNPMA ² ATTCPT ³ AYY/RA GAPTWPAGESPDGQ ¹ PAGGGG ² E GHREYRSGARRRPAG ¹ TRGAED ALGSAGAS ¹ LSRK ² P

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24115	54483	A	24253	145	766	TGCIREKFHLPEGSLTIVSSRRKH LQRLAFQAKVSSMMLPLQGAQ MLQMLEKSLR/KSLPRNPLKVY GTIVFHINHG/NPFLKAVV/DK WPDFN/TVV/CPQ/EQDMDRW TLDHY/ITIVYQIYKDPQNCQEF LGSPELINWKQHLQIQSSQPSLN EAIQNLAIAIKSFVKVQ/TQRILY MGRLETAK/ELTPFLAGNQRIIS PSGWAKPKAM
24116	54484	A	24254	215	550	VGFRSCLVMSGRGKGKGLGK GGAKRHRKVL.RDNIQGITKPAI RRLARRGGVKRISGLIYEETR VLKVFLENVIRDAVITYTEHAK RKTVTAMDVVYAL/KRQGRTL
24117	54485	A	24255	3	292	TLNLNLAHAHCSGPCLLWFQLSF RSPSTSAVGRCCRPSADFHPSRS SRVSAVLLIQ/QRCPLPILQLKA CHCSCATAKWLGSPPKETFEEII HPSPS
24118	54486	A	24256	1	789	
24119	54487	A	24257	3	256	TLNLNLAALSSGPCLLRLLELSFH SPSTTAVCCRHRPAADFPPFGR VSSLLLIQ/QRCPLPILGLKACQ CSCAAKCCVRPNRAEQ
24120	54488	A	24258	3	212	
24121	54489	A	24259	2	491	
24122	54490	A	24260	20	272	
24123	54491	A	24261	160	876	
24124	54492	A	24262	623	796	GANSWNLTGTLAVKAGTVENP I*VFATHVESAGPR*LDPRTGSL AVRTKGRHWDQGA
24125	54493	A	24263	242	659	TSNSPPQTRPHVCHGPRQYLLQ LSSRDLEFLVQIAVRSLCPGLR IRSPVFAVASTTFGTLRGKV KDFGVFPPPPWGQPCLCPEVER ALSCQGPVVDSCRPCRGHEGM AYHTQQMRSADEGQTVFYTC TNCKFQEK
24126	54494	A	24264	66	238	
24127	54495	A	24265	2	278	
24128	54496	A	24266	168	565	TENFRALSTGEKFGFYKSSCFH RIIPGFMCGGDFIRHNGTGGK SIYGEKFDDEFILKHTGPGML SMANAGPNTNGSQFLICTAKTE WLDGKLVVFGKVNGMNIWEA MECFVSRNGKTGQKIKITA/DCG
24129	54497	B	24267	20	88	
24130	54498	C	24268	183	254	

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24131	54499	A	24269	412	590	KSGLATQG/GRRRGWVFLAPQ KGGEGVETQREGVGVLAPSPE KRDLPLRVKDQGRPCVV
24132	54500	A	24270	550	852	
24133	54501	A	24271	207	381	
24134	54502	A	24272	412	589	KSGLATQG/GRRRGWVFLAPQ KGGEGVETQREGVGVLAPSPE KRDLPLRVKDQGRPCVV
24135	54503	A	24273	191	235	
24136	54504	A	24274	95	375	AEKIWEGVSQRALGQSSRGSGS GCQMNPLSGRPQVVCFFTAHM LTKKREEGASMLNMPCFQ*KE EMIQANLGPADSSHCLGIEGPP WAPLTP
24137	54505	A	24275	144	293	WQVPLFWQPFPEPELWPKAL* LTPSQIFSD*RLKTDAA SPRKP PAPR
24138	54506	C	24276	1	909	
24139	54507	A	24277	1	1744	MGCLGTQRAPRAFLLLPLPLHF AQLSNLTQLQAAASLSMVTHR SSGGGGERGATAAGTEQGGAC LAASLLRGLWDAGEVTPIRVRV RPYDPFTLAPLHEHSEAQCVAS PSLTVTKFKSLPKSLLAGSREV ARSRALCHGQARPPRPQVTQQ RTQLQGQRLQWRPATEGPHSP RRGSDSAKGTHPPTTGTCPPRR RQGAGYSRYNSGESRRRLGRQ QDLVARSDEQRDPAPATRRD KMIEELQPFGEHRPRRSPSQGC DTLFQALWFLASPSFQRGGQLQ VLALCKAAAGPGAPQAAS TAG TREHGYAWKLGDTNRHRAK RKSQTLWLRFPAGCPDVCSAL ADLRAF MGLRGEEVCAWDSM GGHSGGECRRGTGGQRAVVPK SPVQEKGEPLSLLYFMVDEK ERFLRITSEHEDNDNSNNSSNHS SINETKETCFIHEPKTPAPVTDW EGSLPLVFNHCRDASLIHSCFK GVRPHRDACLG/RTLSGK/FPL SWGRGKYPSTPSPPLAASPTFL GQGQELVTSARNLTTRPNAC GPGFLLSHVPSVRDPTGNRTVQ LTWQPLPEPELWPKAL
24140	54508	A	24278	2	120	QSSAAKPRTSKGGSVREPWAR VPGALGVAAR*AEQSD FQ

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24141	54509	A	24279	1135	1483	ILTMGTGLSCTPSNAVIEKV*VC CSSLSTG*SKV/QVASNTSLCDG ED*GVVIQKKVKLWVFCIFYVL VQSYYS*R*SQIETVRNGCSHW GRFQDIALITGHCKIWTLIVFIQ YFNV
24142	54510	A	24280	1	860	ATTGCTNLRDDIMRLDDTVHV VIATPGRILDLIKKGAKVDHV QMIVLDEADKLLSQDFVQIMED IILTLKPNRQILLYSATFPLSVQK FMNSHLQKPYEINLMEELTLKG VTQYYAYVTERQKVHCLNTLF SRLQINQSIIFCNSSQRVELLAK KISQLGYSCFYIHAKMRQEHRN RVFHDFRNLGCRNLVCTDLFTR GIDIQAVNVVINFDFPKLAETYL HRIGRSGRFGHLGLAINLITYDD RFNLKSIEAQL*TEIKPIPSNIDK SLYVAEYHSEPEVEDEKP
24143	54511	A	24281	848	1218	PMQRKSMLKISVS/PVSVQKFM NSHLQKPYEINLMEELTLKGV TQYYACITELQKLAETYLHRI GRSGRFGHPLGLAINLITYDDH FNLKSIEEQLGTEIKPIPSNIDK SLCGAEYHSEPEVEDEKP
24144	54512	A	24282	241	477	
24145	54513	A	24283	38	208	MTAGAPPPPPPFETPEGV*GNP TCSGG*EDASGSTRSRQHPVGL PVSCALRACHLK
24146	54514	A	24284	794	1455	AQQGGTSKKRRFPQDQQRAG LACSRPPGPGCGFQAPAGERY PNIKPHPTSVAPLVLCICYLM/P MLPWAWSYWRGARRPSRHPG AFPCSAHQCPASAARSPTLRQE DPEKGSQASSFTGPSQSMVD RCLKGQPLDVSRRQLSLPQTGL RPVLVNQLSKKPTGYPTQIQW VLMRDTGKDTDTTEEKEGHAK MEAEIGVMYPQEHLEPPESGRA KGEIPL
24147	54515	A	24285	90	354	QSPGVHQLSRFVS*SYSERP*SL LVSTRYHTRALH**HYADSIQ* ARSSKHTGLIGCTVP*RGFPRT H SFYSRKREPRRTSSFRGIL
24148	54516	A	24286	236	520	TACFLTHVAIKWVMHSSIPSSN GGGIYMIGLKAQVSMRKLWLK SPWSPLLLSPSLHRWPHGKFFM IS*QRKRRLLGPGSQMVLHDMQ APPKSQGL

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24149	54517	A	24287	16	278	FAQAMKPHLVQQLQLESPLG* AYDNPLSFSKIHLSDLHKPVL*L GDSNDVLGTLESMSAQSCPV VPMSDHLPPMHSPGKRPEV
24150	54518	A	24288	74	168	LGKCLFLHSCP*APPEAICLQLP LLSSPNGP
24151	54519	C	24289	92	564	
24152	54520	A	24290	1	876	
24153	54521	A	24291	71	282	PLVTQVVFLFPTNSSDLLQ/S PSP/GSGPHSNWQPFGLDKWA GVKHPNEECAASKIQTGPPCVV PLPWL
24154	54522	A	24292	81	1054	PRLFSDCFPPPTAAWTCRAFSC SGPHSNWQPFGLDKWAGVKH PNEECAASKIQTGPPCVVPLPW L*EEPNAAIYSPVSPVCFLLLA HWIQA*CHQCNGPVWYLVEV KSNQVLSK*HYDTKPES*YTPY GQEWKRGHLPQWPHTRYQE MY*FAQAMKPHLV*QLQLQSP LG*AYNNPLSFSKIHLPSPHGSH SEPCL*GPTRTLV*L*L*KQTGM LAVAPEENQHLYAWQLPQGRP SLLPQAVQGLSPQTKVERLMA ASVGEGMLPILGMEKLF/PSGK KD*SGFTSSVSPASSGSHTSF QVAGSHSFPNAFTLTVDTW
24155	54523	A	24293	5	88	
24156	54524	A	24294	779	1041	PPLSSSPGP/DEQSD/LWWQSSIP LHQETVKVLH*MGVPVPCATQL DKIHQQGFSDPYRGAVLLASG WCPKRPEIPEEGATTHLCCFPAS
24157	54525	A	24295	248	3714	
24158	54526	A	24296	4177	7804	TFQESRFEQGFQKAIFILELVDA EDPDEEEEEASSIFSSFFLFLP SSSSCSFSSSSSSLLRSPGDKD MPTAGMPDLLQSSSESPQSYPE GEDSQSPLQIPQSSPESDDTLYP LQSPQRSSEGEDSSDPLQRPPG KDSQSPQLQIPQSSPEGDDTQSP QNSQSSPEGKDSLSPLEISQSPPE GEDVQSPQLQNPASSFFSALLSI FQSSPESIQSPFEGFPQSVLQIPV SAASSSTLVISFQSSPESTQSP
24159	54527	A	24297	145	219	

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24160	54528	A	24298	191	1075	QPKVSRHCQTSPGSYLYSLQSG RWTGKPLQQTKS VYLRSFHH HHFQNHRRHYLHHHLLYHHHH YHPHPSHHLLHCY\SQHHHHH HHHHHHHEHHLCRHHKSTQVE YSVFAERENDLGNCTGDEAL HDNGTTERVSGPPAGYLYRAD YAIQLQPFMPRLGRRTPGAGGP HSRAPELAYLQKLITSPATLPFV YLETGGWSPRDAHRVDNFD MPRENMGVSVWEKSLFTRNPSK SSYIADKNLIYLYASECIGRQSQ KARASKSGVQAEHPYITGAIKD DTRAIKTRDLANRLK
24161	54529	A	24299	155	381	LICTSFKILSRLLFCPSLL*SSSSQG ACISKLLSVLTIAHLYFALEKE VLTFLSRAIVSSSTLLTHGVAHS LTLFH
24162	54530	A	24300	1052	1338	TGWDGPPANCSSPMEGDSNVH CSCVCCSCFGLLL/CAIHCCCA PPGCSACGAATLLYSAPLGSSA YGIALLSPFHHVRMMLSTKQEV GLHQTLLNP
24163	54531	A	24301	1	723	MLNVQALVVMVMCFMWASL WAPGGHPSAGNISWVSGLVSP PEWSSWELVVS VVGWAGKLW LHESLLTLNLSCGLLVVLVALV FDEWHWPWSGHVAEACSTGYWS TGGIWFHEIAAP*DCSSSPAME QSWMEND\DELIEVGFRRLVIT NFSLEKEDVRTHLKEAKNLEKR LDEWLTRINSIEKTLNDLMELK TMARELRDACTSFSSQFDQVEE RVSVIEDQMNMKREEKFREK RVKRNEQSLQEI
24164	54532	C	24302	295	430	

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24165	54533	A	24303	811	1947	QTERNSINIRNRNGHQHQPICRS PSSKTKGSIKPQSRGRNQSRKA ENSKNQSTSSPPKDCSSSLAMK QSWMENDFDELGTAGFRRLVI TDFSELKEDVQTHHIKEAKNLE KKIRQMVTNRINSVEKSLKDL ELKTMARELCDACTSFSSRFDQ VEERVSVIEDQMNMKREKEF REKRVKRNEQSLQVIWVYVKR PNLRLIGIPESDEENGTKLENTL QDIHQENFPNIARQANVQIQEI RTPQRYSSRRATPRHIIIVRFTKV EMKEKMLRAARQKGRVTHKG KPIRLTADLSAETVQARREWGP IFNILKGKNFPRISYPAKLSFIS EGEIKYFTDKQMLKDFVITRPA LQELLKEALNMERNNNWQPLQ
24166	54534	A	24304	1	2394	
24167	54535	A	24305	1902	2413	
24168	54536	A	24306	2	610	WAPPAIHIRCMPAEAYNFRKPL SLIPSAIQSNELIIMNGNRALNIQ LLKRYQCTLDIRYKQTSMLNC YEGTVITPSHIQYPCLSDSYGLY DIGIRNTDFLKGELSMNIRPLHD RVIVKRKEVETKSAGGIVLTGS AAAKSTRGEVLAVGNGRJLEN GEVKPLDVKVGDIVIFNDGYIG VKSEKIDYEEVLIMSESDILAIV
24169	54537	A	24307	1	801	
24170	54538	A	24308	1268	1579	TAIWSPSKSALYAAQTSGCSWI ALPSISTGSNAWIPRCRVGARF SSTGCSRITSSRISQTTASSRSTIF FAALMVVARPRSSSLP*MNGLN SSSAIFFGRPH
24171	54539	A	24309	583	796	IHCIDIRFSATPAGGEFWQYIAS RQSIFHAIVETGHALIQSSVPG LTPAMKAVATTSH*TVESCFRS ASR
24172	54540	A	24310	1	313	MPNVDDVVGEMVNTMSASRSY QANVEVLNTEKAMSIATTTDP TNTGVSTTSSSLTG/SNAADLQ SSFLTLLVAQLKNQDPTNPMEN NELTSQLAQISTTLRAY
24173	54541	A	24311	54	323	SASAQVSALSIHSAAFQNEYLSP CPN*RLVSFAFTNSSRQSG*PEK SVSQTPVITASAF*YADIAASV RNKILRPGTNVFGDTIGFRVQ
24174	54542	A	24312	816	866	
24175	54543	B	24313	1	985	
24176	54544	A	24314	1828	2505	
24177	54545	A	24315	1	1938	

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24178	54546	A	24316	4201	4668	
24179	54547	A	24317	269	503	
24180	54548	B	24318	1	1702	
24181	54549	A	24319	829	1584	
24182	54550	A	24320	1238	1926	IQAAYNRIAPSSSPKFPACGKP CLGERGIRGPGPSFGLINRPST PDPITITGVSTT/SSSSLTGSNAAD VQS/SFLTLLVAQLKNQDPTNP/ MENNELTSLAQISTVS/GIEKL NTTLGSISGQ/DNSQSLQASNLI GHGVM/IPGTTVLAGTGSEEGA V/TTTTPFGEVWDGTL/TDGT APNGSYNVAIS/ASNGGTQLVA QPLQFALAAERFCALSPGAPYR YDTWVRQWVASP
24183	54551	A	24321	487	1509	FYLQGLRQQPQVRQPLNIGVTA QGVNAAACHPHIAEQQLDHRH RTNVLRITNGVLRPAEGIERGS FIVSTGFCDFVADFQERVFWR TDVFNHIWRVAGNVLFQQVPH AARMLQRGIAFGEAVFVQFISP GGFIVLAFRRV VAGEQAIFKAVI LTHDQAGGGIGFVFAVEFFIV QQVQQYA*QESNVSTGTNRGIV VSYRRRTKARIDHNQLRAVV NFGFHRPAEPDRVSAHHHDEV GVLDVDPVVGHRKTFDDIWH DQFIDQVRVRFSGDNRRLQDRE QVGLQSANNPIDKSLFRGINQF QLYAAFTAQDVNIDIFKTRQQF FAVIGQTTGVQVQK
24184	54552	A	24322	377	749	
24185	54553	A	24323	140	298	
24186	54554	A	24324	342	1094	MGAPWLHRPRRALQRWRLGS GFSCGSLGLQENNGRRPVMV LALSTLPRRPTRCGEFYCLIKP GFRLGMKSVKMEIRGLWAGGE DKIAVPAEPRASGPERTLSDLH NESIF/ITGGGSLGLALVERF/IE EGAQVATLELSAAKV/ASLR/Q RFGEHILAVEGN/VTCYADYQR AVDQILT/RSGK/LVNTPAETLE TGFHELFNVNVLGYLLGAKAC APALIASEGSMIFTLSNAAWYP GGGGPLYTASKHAATGR
24187	54555	A	24325	1	1785	
24188	54556	A	24326	2	1760	
24189	54557	A	24327	2437	2679	TFQYIGQPHGDEFPHVAPVKHG DKLGEKGNHDKSRHLFHRFN H*MR*IRLTSNCAGSDAISQRD NKEKNQDQWHDITFNKG

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24190	54558	A	24328	3	415	
24191	54559	A	24329	1	1932	
24192	54560	A	24330	1932	2117	RAISLGRTAAGYLNSDVAQRA ASGADPAGDFVFWH**IRKNLS GGARYAIPHL YQHLAWHP
24193	54561	A	24331	1	1017	MRYREPPARGVEPNELHACRSE DKLSEDAFDQCTGANPRYPLI SELKQILLDTYYGRDYVEDRLS FLLAVALNNGERLDGEMSEK LVMPFRHVSDAFEQTRETIGVR GNNAINDMVRQRLN\RTFSEQ AEGNAIYRLTPLGIGITDYIRQ REFSTLRLSMQLSIVAGELKRA ADAAEEGGDEFHWHRNVYAPL KYSVAEIFDSIDLTLQRLMDEQQ QQVKDDIAQLLNKDWRAAISS CELLSETSGTLRELQDTELEA GDKLQANLLRQDATMTTHDDL HFVDRLVFDLQSKLDRISWGQ QSIDLWIGYDRHVHKFIRTGID MDKKPRPSRRCL
24194	54562	A	24332	5	220	GLSWLNYC*ASTLTISLRCA AVPLTRICRPRLLPSRRERTAL PCITYVKIAVTLTLATCASCVR WIPA
24195	54563	A	24333	3	180	
24196	54564	A	24334	229	564	PGFKPRHSSWQRLPSLGHPL GSSVFTLLNLATAHSSGPCLLQ LELSFHSPSTTAVCRRHRPTAD HPSESGRVSHVLLIQ/QRCPLLL WIRLKACHCSCTAKCPGSSQLS
24197	54565	A	24335	148	404	
24198	54566	A	24336	213	1306	SEHSVAHGRGIMDLSLLKALS EADAIASSEQEVQRILLEADR LQKEVRVDGLGSVLRLNESTG PKVMICAHMDEVGFVMSISRE GAIDVLPVGNVRMAARQLQPV RITTREECKIPGLLDGDRQGN VSAMRVDIGARSYDEVMQAGI RPGDRVTFDTTFQVLPHQRVM GKAFFDRLGCYLLVTQLRELH DAELPAEVWLVAASSEEVGLR GGQTS\TRAVSPDVAIVLDTAC WAKNFDYGAANHRQIGNGPM LVLSKSLIAPPKLTAWVETVA AEIGVPLQADMFSGGTGDDGA VHLTGTGVPTVVMGPATRHGH CAASIAADCRDILHMQLLSAFI HKSNELGGVLRRLRIQICRDGNE
24199	54567	B	24337	1	1075	

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24200	54568	A	24338	438	1462	QIVQCLDVPSYTFIWFVAVLDPIY GDSVSTGLVVAIHSIIVNAITPIG LYLLNPSSGADGKKNSNLSALI SAAKEPVVWAPVLATILVLVG VKIPAAWDPFTNLIKANSOVA VFAAGLTLAAHKFEFSAEIAYN TFLKLILMPLALLVGMACHLN SEHLQMTLASALPPAFSLKLIY CAA/ARLMCYTRTGTSLAITLT ETVTQKL TGSRPRISSYGRNLM WPLAWYKDNKGPHLCSQLETT RIHSTAAQGRSSGSLRRGLGAS PFYRQHDQARSEGQIPITRIPMG LAQRAPKGRAQPRGLTAPFTN GALGQPQGRGTSKQASQTRPR ASAWPHPTT
24201	54569	A	24339	30	177	GSQYQRCHNNAASDRLRSYRK QPAER/WLAPPDITSPPASRRRA LILLY
24202	54570	A	24340	3350	3430	
24203	54571	A	24341	425	824	SISGSENA CFNATNHSGRYSQY GACLTSSSCRKGQLARRGLSYQ SPHAPADPAFPAARRSPVFCLS DDGGHKSPRDMSPDKPSRHPD QVALTRRIPPPAVALPSVVKR TVHEGQGDDESNPSPLSPDVH
24204	54572	B	24342	1	2118	
24205	54573	A	24343	1	888	
24206	54574	A	24344	730	1101	
24207	54575	B	24345	1	1992	
24208	54576	A	24346	880	1103	TMMRRLISRQPVLPQKCFSLVLI SNPWRVFGGTGGGNQER/CRY AEESVAETRLCP*CRLYAEYDP GSGCAGLSL
24209	54577	A	24347	1	952	MITLRKLPLAVAVAAGVMSAQ AMAVDFHGYARSIGVWTGSGG EQQCFTTGAQSKYRLGNECE TYAELKLGQEVWKEGDKSFYF DTNVAYSVAQQNDWEATDPAF REANVQGNLIEWLPGSTIWA GKRIFYQRHDVHMIDFYWDIS GPGAGLENIDVGFGLSLAATR SSEAGSSSFASNHIDYS/NEN AND/VFDVRLARWDSPPGPLTG FPSPALACTSGVSGQKGVGPP EAQVTFATPKKPGKEACSSIQV LNRGYRPPTFSYNTGVRRSARD YYPRRQRSISTNSPSRRWKGL NSRRCTGNRPLVGAVS

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24210	54578	A	24348	805	1274	ASFATIRPVTKLAMRVAIFDSV VGQRYWGSAAPEHSRFAVLW ILASIFR/DRIASLRVQATVK\$*K MS*A WYWQGCFRNWKSSPA*Y QFFSPARSASSHFAGEPVSLHSP IALGYRSESSSCHTSTASLSVH RDYAHHLGLRFDHSSRRRI.CY C
24211	54579	A	24349	275	490	
24212	54580	A	24350	1	696	
24213	54581	A	24351	1	735	MFIPDYRSVSRVLGSGPGYASR MNQPDVMPDIPGKRFYQRHDV HMIDFYYWDISGPGAGLENIDV GFGKLSLAATRSSEAGSSSFAS SNNIYDYTNETANDVDFVRLA QMEINPGGTLELGV DYGRANL RDNYRLGKGLSQSGGVAFDNE KFAYNINNNGHMLRILDHGAIS MGDNWDMMYVGM YQDIHWD NDHG\TK\WWTAGIRPMFKWT PIMNTGMKF/GYE/NVESQGGP QNIRTIYLAKP*QPDVMPDIPGK RFYQRHDVHMIDFYYWDISGP GAGLENIDVGFGKLSLAATR EAGSSSFASNNIYDYTNETAN DVFDVRLAQMEINPGGTLEL VDYGRANLRDNYRLGKGLSQ SGVAFDNEKFAYNINNNGHML RILDHGAISMGDNWDMMYVG MYQDIHWDNDHGHQVGGPAG IRPDVQVDAHHEHRDEIRYEKL NPRARDKTFVQFTSQNPDR
24214	54582	A	24352	1	3414	MIVQPLAIIGSHFDSIAAGNLAR PIAVYGRNEITAIFASLKTMQQ ALRGTVSDVRKGSQEMHIGIAE IVAGNNDLSSRTEQQAASLAQT AASMEQLTATVGQNADNARQ ASELAKNAATTAQAGGVQVST MTHTMQEIA TSSQKIGDIISVID GIAFQTNILALNAAVEAARAGE QGRGFVAVAGEVRNLASRSQ AAKEIKGLIEESVNRVQQGSKL VNNAAATMIDIVSSVTRVNDIM GEIASASEEQQRGIE
24215	54583	A	24353	1	2493	

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24216	54584	A	24354	1	1201	MQPALLVLNKNVRQEARRRAR ACRIRRASGIVQFGKVRRLQAA VELRQRQTPERFVLLRGTRQQA TGQRIVKTEQRVVIITQRSFRRPG EGRRINDHFRFPAHLPSIRPIGK HQTFFGISGHHFNFFTVAGDDI AQLDRIGANQSVLKGFNKFVV QYATDSMTSQGKGLSQSGGVA FDNEKFAYNI/SFNGHMLRILDH GUNWDNDNGTKWWTVGIRPM YKWTPI MSTVMEIGYDNVESQ RTGDKNNQYKJTLAQQWQAG DSIWSRPAIRVFATYAKWDEK WRYDYTGADNNDNANFGKAVP ADFNNGSFG/RGDSDEWTFGAQ MEIWGLSRASGTLVTRAWRYK TTPTRHCLLMNHYAGEAAMR WKNYLKSTQKVLQNFANWP KYSLSLTFHFPEFSKSC
24217	54585	A	24355	188	406	FIRSFDPSPFVPSVLDRFVLSTVF HSSSIFLVVIDRPSVCGEPSLF*V GGSCPTNSLYRCSGLAWYLMR SMD
24218	54586	A	24356	1	1798	
24219	54587	B	24357	1465	7841	
24220	54588	A	24358	174	3762	TLNDAMRREKCLARINRTAKS GVVMPKLVWMMNQVRVGELT KLANGAHTFKYAPEWLASRYA RPLSLSLPLQRGNITSDAVNFF DNLLPDRITVRDRIVKRYHAKS RQPFOLLSEIGRDSVGAVTLIPE DETQHHYESLTITDEGEFVVFV GPSGCGKSTLLRMIAGLETTITG DLFEGEKRMNDTPPAERGVM VFQSYALYPHLSVAENMSFGH ATGLAQHKEVAEVLPSRRICWI ANRRSPVVS SVWRL
24221	54589	A	24359	364	845	RPLLDHGSSPRLNFLRFWYVHVH AHTLMRMTEGWAGFDILRPYR WRRVIAFVVAFYFRHLIALLVV QMHFKLVGKNDVVFVTAQLID STVQLIDSTTTVTQFTHIQQLM IQRAGTKCRKEDFRHWFVHHHP WVL/MSPPSVTLYALFPDRSHR PRRDGSPDA
24222	54590	A	24360	781	1275	

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24223	54591	A	24361	1	1185	MDKFDANRRKLLALGGVALG AAILPTPAFATLSTPRPRILTLNN LHTGESIKAEFFDGRGQYIEELA KLNHFFRDYRANKIKSIDPGLF DQLYRLQGLLGTRKPCSGYVT TAPAARSYRLTSKFIAVGGKAL SSLNIHIIAPHLEALIIGESDTK NFASHDHAILIYKLEPTTGMLR TRAYIGQHMPLYCSAMGIYIM AFGHDPYVKSYWESHQHEIQPL TRNTITELPAMFDELAHIRESGR TMDREENELGVSCIAVPVFDIH GRVPYAVSISLTSRLKQ/PRQH RFRLRERQAGGTPPAGTNSVT GGASLHHARCQRRK*KPYRPER A/ESFLPARGKICWP*AGTLTVC IMASASRLISGCTPDSTCWSTA HAPICRRRGRAINRCHCSS
24224	54592	A	24362	1	801	
24225	54593	A	24363	1523	1950	LLPA/AQKRRVDFLRATDFNAL MPGVVEIDGKNYITQIIDLTRE AVVNRPEVHRRYIDIQFLAWGE EKIGIAIDTGNNKVSESLLEQRN IIFYHDSEHESFIEMIPGSYAIFFP QDVHRPGCIMQTASEIRKIVVK VALTALN
24226	54594	A	24364	281	997	LTFARLKGITRKIGRLQSRRRKR CKAMGVDVNRVYSLDELVRG NDILFSATGVTGGELVNGIQQT ANGVRTQTLLIGGADQTPMAT LTEDDVLEQLDAQDNLFSFMK TAHTILLQGIQFLPSLFVDNDE EIVEYAVKPLAQSGQIDDIDV ALRLIYALGKMDKWLYADITH FSQFVWHYLNQDETPGFADDM TWDVFISNVNITRNAMLYDALK AMKFADFVSWSEARFSGMVKT

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24227	54595	A	24365	263	1410	AMISRRRFLQATAATATSSGFG YMHY/CLNSDAIALGIEQRPDLI LLGGDYVLFDMSLNSSAYS LSPLAECAPTFACFGNHDRPVG TEKNHLIGETLKS AVITGMLNQ ATVIAYANRPPELVGTGDLWS GQCKSASASETNLSRLVLAHNS CSKEVMRDEPCDMLGSHTHR WQLSVPMAGEPFCHVADERYV LGLNAFCERHIYTIPRGGKRIPQ TFAADLPKGITVNPVQSTITEE TFQTLVSRLEKLG YTVNKP EVDYNVGYTSLASGDATFTAV NWTPLHDNMYEAAAGDCKFY REGVVFVNGAAQGYLIDKKTAD QYKITNIRQLEDPEIAKLVD TNG DGKADLTGCNPG LFGEGAINH QLGAYELTNTVTHN
24228	54596	B	24366	1	2872	
24229	54597	B	24367	1	1704	
24230	54598	B	24368	1	1470	
24231	54599	B	24369	1	2301	
24232	54600	B	24370	1	900	
24233	54601	B	24371	26	856	
24234	54602	B	24372	1	1743	
24235	54603	B	24373	1	1410	
24236	54604	B	24374	1	957	
24237	54605	B	24375	1	2742	
24238	54606	B	24376	755	1816	
24239	54607	B	24377	1	1968	
24240	54608	B	24378	926	6441	

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24241	54609	A	24379	1	1739	MTWTHEAVNRREPLRGCEPNW DVIDVKPAGCMISRRNELPYTLG LRIDMLVDLGTASLMGQSSVY NTTDRHSTHRMDGLEQLMQQA DFAADIAVVAPWDNWSPTAGR FGLIRLLDEQTAPYAWYTSPMH LMDEKCSCHRRQRPVIGLNQPO YQSGTIEVDNVSFAYRDDYLVL KNINLSVPSRNFVALVGTGSG KSTLASLLMGYYPLTEGEIRLD GRPLSSLSHSALRQGVAMVQQ DPVVLADTFLANVTLGRDISEE RVWQALETVQLAELARMSMDG IYTPLGEQNNLSVGQKQLLAL ARVLVETPQILILDEATASIDSG TEQAIGHALRRDCSPLIDHCDA DTILVLHRGQAVEQGTQQLL AAQGRYWQMYQLQLAGEELA ASVQPLPNSDRRGSMKLVTVII KPFKLEDVREALSSIGIQLTVT EVKGFGGRQKGHAELYRGAEYS VNFLPKAA YTGKIGDG/KIFVAE LQRVIRIRTGEADEAALYLWHT ATERDGPFRNFTAGAFRASLPH PARHGRRPILAAPFMPVNPRLP PRRRHLASGRSLRFNCCTAGDE TCSARSGERRSLVF
24242	54610	A	24380	547	684	

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24243	54611	A	24381	1	2208	MLLVSAVSVNAMSISGQAGKEY TNIGVGFGTETTGLALSGNWITH NDDDDGVDVAGVGLNLPLPLPL MATVGGKGVYTNPNYGDGEY AAAVGGGLQWKIGNSFRLFGE YYSPDSLSSGIQSYEEANAGA RYTICVQVFVVVMLIRNQLFTP VNTAIDGFATNYAIMPAYAVG EGVATHGLQFELMRTTGGNTQ HVFHHPLPLFAMWRYAAEMFP YQQMCQFVRYHFFNKSFTVFQ QQNGIEANFIAFQPRSGGSA LGRNVFGFRYPQCCQDKQYV QSRHPEGVGVTQRVEHGQERC ANDHVQSSGTLMQEGVMSAS LKNQQGFSLPEVMLAMVLMV MIVTALSGFQRTLMNSLASRNO YQQLWRHGWQQTQLRAISPPA NWQSGAAMLRVYHSNRLDVL EALMEFIVERERLDDPFEP VQSTGMAQWLQMTLSQKFGIA ANIDFPLPASFIWDMFVRVLP PKESAFNKQSMWSKMLMTLLP LLEREDFTLLRHYLTDDSDK LFLQSSKAADLFDQYL VYRPD WLAQWETGHLVEGLGEAQAW QAPLWKALVEYTHQLGQPRW HRANLYQRFIETLESATTCPPG YLRASLYAAIQHALASVREHTT LVVIAHRLSTIVDADTLVLHRG QAVEQGTHTQLLAAQGRYWQ MYQLQLAGEELAASKGHAELY
24244	54612	A	24382	2	729	DCSLPIDHCADTLVLHRGQA VEQGTHTQLLAAQGRYWQMY QLQLAGEELAASVQPLPNSDRR GSMKLVTVIHKPFKLEDVREAL SSIGIQLTVTEVKGFGRQKGH AELYRGAEYSVNFLPKAAAYTG KIGDG/KIFVAELQVRVIRRTGEA DEAALYLWHTATERDGPFRNF TAGAFRASLPHPARHGRRPILA APFMPVNPRLPPRRHRLASGR SLRFNCCTAGDETCARSGERR
24245	54613	A	24383	683	1161	RTGHCH/SAFSSTVLTSCSLSRF SFLAHLQYLLRVAEPLPNSDR RGSMLKLVTVIHKPFKLEDVREA LSSIGIQLTVTEVKGFGRQKGH HAELYRGAEYSVNFLPKVKIDV AIADDQLDEVIDIVSKAAAYTGKI GDGKIFVAELQVRVIRRTGEADE

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24246	54614	A	24384	631	1149	FFGIKEQVITANNANSNRNKTD RCCRNWLEDHADNHCHKHSEV MPCLRRHTVGD RDKKHDTTHH HQWQG*FPYIIFWLVSPLAISRS KVSTHGLRQDRDFILLREASQSF RFVLRVYDVADHIAGKFTVHD LQFIGYHGGQAQLVAQVFSKES KAAGGNRHFFAQRQFLEHQLR
24247	54615	A	24385	833	1264	
24248	54616	A	24386	1	1632	
24249	54617	A	24387	2078	2371	
24250	54618	A	24388	1	159	
24251	54619	A	24389	530	811	RPGTGTAQVLNRRIKISRST*L TVVMGYWSHPSVSLKWDRR KSPKCSSALRVNISNTLLSTARR RKRYLIVIPALLVVRRCRPRGPS ACG
24252	54620	A	24390	1806	2115	AAFQEIELAFQDPQCVGLLTAP MLMPLFLDQLILQCFW/W/TN LERA*TSFSALFIDLQPPGYRTT TSKHKVSSSLIKGHVLLDHSFH DLNTQLWISTNAFRFGN
24253	54621	A	24391	1476	1751	ALLLVSFASQRFISA/TVGNQNA GVDLLNLTLVGGIFVLNNAGN FAVFTGDT SITGRIIQFHRQQTN ATLRF SITQLECFDRQRHVA VEH
24254	54622	A	24392	606	4519	EEVVRAISAKRNEPEWMLFRL NA YRA WLEMEEPHWLKAHYD KLNYQDYSY SAPSCGNCDDT CASEPGA VQQTGANAFLSKEV EAAFEQLGVPPVREGKEVA VDAI FDSVSVATTYREKLA EQGIIFCS FGEAIHDHPELVRKYLGT VVPG NDNFFAALNAAVASDGTFIYVP KGVRCPELSTYFRINA EKTGQ FERTILVADEDSYAAKRLTDYP HQLSGGERQVRMIAMALLTRP ELLIAD EPTTALDVSVQ
24255	54623	A	24393	129	256	

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24256	54624	A	24394	1	1082	MAMSKVKSTITRESWILSTFPEW GSWLNEEIEQEQQVAPGTAFAMW WLGCCTGIWLKSEGGTNVCVDF WCGTGKQSHGNPLMKQGHQM QRMAGVKKLQPNLRTTPFVLD PFAIRQIDAVLA THDHDHIDV NVAAA VMQNCADDVPFIGPKT CVDSWIGWGVKERCIVVKPG DVVQVTALEIHAPDAFDRTAPI TWLADQKRRRTVKGRITRPN RSVTVPRRRDAVIGRFYRHQS ITQKGLLLMVMPGCAFLWIDS ELNLTIDALFEGVSGITTTGAT VIDDVSSLPRAYLYYRSQNLFIG GLGVIVLAVAVLPLLGGGAKL YQSEMP/AAI*G*QTHSPPGRYV TDTVDNLFIFRCRT
24257	54625	A	24395	49	281	ASDHRYLCSQSVPLRGIPACYL LQAPLTRWR/RIPPSRRICAIDS AISRSQQRWLTA VCCGTVNFTN TCLLPDGVCA
24258	54626	A	24396	737	1419	CIWRMYSHRLVA WRRVCRRR/ RYLTRFAKTRGVAIVMVGHVT KDGSLAGPKVLEHCIDCSVLDD GDADSRFRTLRSKRNRFQAVN ELGVFAMTEQGLREVSNFRGR GKRKFISPKKTPALAKFRNRLL PPKVPNGTSTVRFRHSRICWMN PLPGAA WNCILTLKKPISPGVQ VFPESFTPARLEAFAGRSQACL VPAQNILHQKSQA WLFDFPEQE KELRELSAWMAGA
24259	54627	A	24397	526	1693	STTGIRSIAMSNPILSWRRVRA/ LCVKETRQIVRDPSSWLAIVVIP LLLLFIFGYGINLDSKLRVGIFL EQRSEAAALDFTHMTMGSPYIDA TISDNRQELIAKMQAGKIRGLV VIPVDFAEQMERANATAPIQVI TDGSEPNTANFVQGYVEGIWQI WQMQRAREDNGQTFEPLIDVQT RYWFNPAAISQHFIIIPGAVTIIM TVIGAILTSLVVAREWERTME ALLSTEITRTNELLCKLIPYYFA LGLMLAMLLCMLVSVFILGVP YRGSVLILFFISSLFLSLTGMG LLISTITRNQFNAAQVALNAAF LPSIMLSGFIFQIDSMFAVIRAVT YIIPARYFVSTLQSLFLAGNIPV VLVVNVFLIASAVMFIGLTWL KTKRRLD

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24260	54628	A	24398	655	915	IAVNVTLAFNGGKQLR*STSLI CCQEGLAFAVNLRQHFRVQTIS FFFLPVLRFWRPQIQAKKCHP APRTAKGIPQQVIRAMRLLFK
24261	54629	A	24399	549	827	
24262	54630	A	24400	472	626	WRFFRPRKDNIRRTLFADGHQI AAQPGNLNLSCTRTIF*IKRINTFP GRWRK
24263	54631	A	24401	333	617	SDQSETDYRFADGERHLENQPH AGQTGRGGAGPGCTLYQRFAQ LCEVSEVERSGCRTLSAQHVEQ NLPAAICGGDDADGAVVHLWT TA*RTRIGTLRSGPKMNDISAISI TATDSGWKILLHMLS
24264	54632	A	24402	74	265	
24265	54633	A	24403	1	1005	
24266	54634	A	24404	1068	1185	SVAIRQASTGNRCQCLCPACA WA*VNADVK*SARVSRL
24267	54635	A	24405	1	2292	
24268	54636	A	24406	720	2496	RRAGYRKAADAMTTIVPEKLS REVGSFHFLDRTTAVHRQPV SATTTVHEFLRCHQFPLVVC GRMTTPRAMFLFSSAHLMLPN HNSHINTLFPVAGTLMVEPTES ESKVELDRFIDAMLAIRAIEDQ VKAGVWPLEDNPLVNAPHQS ELVAEWAHPYSREVAFFPAAL VTGSGRGIGRATALLAQEGYT VAVNYQQLHAAQEVMLNLTQ AGGKAFVLQADISDENQVAM FTAIDQHDEPLAALVNNAGILF TQCTVENLTAERINRVLSTNVT GYFLCCREAVKRMALKNQGGSG GAIIVNVSSVASRLGSPGEYVDY AASKGAIDTLTTGLSLEVAAGQ IRVNCVRPGFIYTEMHASGGEA GRVDRVKSNIPIRQGGQAEFF AVQTFFVWRVAQHCAVRPFRQ RIGQLRDIHFLKGDQFTNPRKT GVTPQPPCSTYPDPSPPPVPAAG HIDRPALAPTFTPIIMCSKATVK PLSPSPPGTDPASVLPFREQRA AVHRLRTVVTRHLLALRRDPF ANRHRQQDQRNGGFHHRQRHL HTGKTRSLHHHQFAALRQHPK TKQRKQSRHREEDLHIFRHAQ
24269	54637	C	24407	49	186	
24270	54638	A	24408	470	811	
24271	54639	A	24409	1	1006	
24272	54640	B	24410	1	2793	

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24273	54641	A	24411	463	1258	CCRSSWCNDSSETGLQIVASYF EDRNGDSLALRPEGTAGCVRA GIEHGLLYNQERLWYIGPMFR HERPQKGRYRQFHQLGCEVFG LQGPDIDAEILMLTARWWRAL GISEHVTLELNSIGSLEARANYR DALVAFLEQHKELDEDCKRR MYTNPLRVLDKSNPEVQALLN DAPALGDYLDDESRHFAGLC KLESAGIAYTVNQRLNRYLS ANLIENNLSLFDGEGYRFYHPK PTKNAERENRQCRNDLFFRCGF
24274	54642	A	24412	221	832	TMAENQSTVENAKEKLDRLWK DGITTPGGKLPSERELGELLGK RMTLRQALLNLEASKIFRKDR KGWVFTHPRFNYSPELSASFQR AAIEQGREPFWGFTENRTSDI PETLAPLIAVTPSTELYRITGWG ALEGHKVIFYHETYINPEVAPGF IEQLENHSFSFSAVWEKCYQKEPV VKKLIFKPVMPGDISKYLGGG AGMP
24275	54643	A	24413	158	481	
24276	54644	A	24414	2201	2350	
24277	54645	A	24415	621	1830	AGWKRGGAGEPDQGLQA\EME VLENLQELKDLNQRQAHAESKI FRKDRKGWFTQPRFNYSPELS ASFQRAAIEQGREPSWGFTEN RTSDIPETLAPLIAVTPSTELYRI TGWGALLEGHKVIFYHETYINPE VAPGFIEQLENHSFSFSAVWEKCY QKETVVKKLIFKPVMPGDISK YLGGSAGMPAILIEKHRADQGG NIVQIDIEYWRFEAVDLINLCF MVTINNARKILQRVDLPLYLH AYAFHNLNMLRLRVLPADLLDIA SENNLRGVKIHVLDDGERFSLGN MDDKELSAFGDKARRLNLDIHI ETSASDKASIDEAVAIALKTGA SSVRFYPRYESNLRDVLIIAND IAYVRETYQDSRLTFNIEWGKS SCCSPYVHPWAKLAAIYYRLQP HINDAF
24278	54646	A	24416	83	502	
24279	54647	A	24417	15	95	
24280	54648	A	24418	500	786	LTQRFGTVPLLQAYLYSAFFF TPEFLRPAPPLFSAAVLPEQRQR AQGIGGLVIRPTVELHQALQLF FGHQPKIQSLHALLRGSTGFQA SFRLPL

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24281	54649	A	24419	1	2914	MYYSHASCVADQYACGMHRT PSRTGRPRIHAPRQARLKPQVK VASKKRNARDKMQPPNEQQKT RAHACTPSSRFRAVVRTLTCPV VANVTRIFPRYFSNTRVLRRRR KQARGTWWRRLRHLHLYVQPH KHTSYYIYRLYRVTYVMSAQV VDTGIYEFTRKKHDIGTIELPNS EIRYHGNPAMSRPRKTPTPPNSP ASERATGPTTLLPPIRQRRYAA RHTSTIAYTNSTSDIFEAPYNKA APIMRYTSVYCSLFSP
24282	54650	A	24420	2	420	CPYPENRWRCIKARPLLFRAA *ASRFAGAGMPGRLIPTVRPRN SNSGRLVSASRCAKESLTVTTC TPLPGSAVREASN
24283	54651	A	24421	212	497	
24284	54652	A	24422	1	1149	
24285	54653	A	24423	535	589	
24286	54654	A	24424	1	1458	MFDPETLRTFIAVAETGSFESKA AERLCKTTATISYRIKLEENTG VALFRTRTSVTLTAVGEHLLS QARDWLSWLESMPEAAATVW MFVPTPLSVASGLQRIGRAGHQ VGGVSKGLFFPTRRDLVDSAV IVECMFAGRLENLTTPHNPLDV LAQQTVAAMDALQVDEWY SRVRAAPWKDLPRRVFDTL DMLSGRYPGDFSAFRPKLVW NRETGILTARPAFAADSDIAD GQTORFDFSILQSMADHLSQTA WR/GIQYDAEKS LWHNVENRQ LDAQFFHMGMGFRFRVRMFVS DPATHLAREIHFRPELFKYND GVDTKQLEGQSDLGAFGRVF KAPELARRDVVSFLGASYFRAV DDTYQYGLSARGLAIDYTD EEFPDFTAFWFDTVKPGATTFT VYALLDSASITGAYKFTIHCEKS QVIMDVENHLYARKDIKQLGIA PMTSMFMPRKNASRLSKRCYDI RERDGREERK
24287	54655	A	24425	157	650	PIRASTCLFKPLITQCFRQFGSE GVNDHLLGILLIDPARAQIEYLF IINTPHRRVAFAFHICIDFQLRF RIHFQFAHQJIVVGHLTIRFDG VLRDVDQTVKYRAAFVADDSF VQLSAVTKTFIVFPQGTGITHLV FHRHRQAQ*PFKVPFSRRLRNGI HTHC
24288	54656	A	24426	269	2024	

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24289	54657	A	24427	1	3548	MPRSNYFSERCKGEIFLKFNEM QRTGSFKIRGA FNKLSSTLDAE KRKGVVACSAGNHAQGVSLSC AMLGIDGKVVM PKGAPKSKVA ATCDYSAEVVLHGDNFNDTIA KVSEIVEMEARIFIPPYDDPKVI AGQGTIGLEIMEDLYVDNVIV PIGGGGLIAGIAVAIKSINPTIRVI GVQSENVHGMASFSHSGEITTH RTTGTLADGCDVSRPGLTYEI VRELVDIVLVSEDEIRNSMIAL IQRNKVVTEGA
24290	54658	B	24428	1	2691	
24291	54659	A	24429	2174	3315	NLPKPDWARSAPHASANYKS NTRRLPFAREQ/QDQHTLLAGT LFI AKILIPMQIA SAAYRRRC DAQHLFLPLQLAPRGHRYKRV CQVRYPPHIALIPVV FRLMNDAN GLSQPADAGLAHHEMRNFLDF ASSNVAASRRRCVAALPCATG KGRQANEQAENKCSKDPQTHR TDNKETKTPPARPTTTTQPHTK EEEPLSTPTQTKHPPTHVGTGTP HPTPASGQTEKHERKRPQOKS NARQNSKDKRTPNKSCTTKPN RGYNQHPAGEPTMSTHEKVVP HQQNRKIQAPPKRQKTDHRT HNTHPHPPHRAASTTTQAAPPP RRATRSGETSATAHNNTEPHGTR HTQPGDHKRAEEHDRTADEPT PPEHTLPSHTQLGP
24292	54660	A	24430	1	2925	
24293	54661	A	24431	341	689	RPLAFRQRCTFYWR/PGSANC LV*GASGTDPRLYSPCAAAADD CGRRNAGRRRRATSGD*SPHR RWENALLFDSRHRHCPRRAKN AGGEYRQQRGIAGSDLQQRFTA AEKDHSRS

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24294	54662	A	24432	1	1931	MGTLGLTLVTLVVAELPAET DVAADPAASPTCTAVNQITGRA IVAADFFIIFQLWQNTVRQLVT HFKPHGQSEMSDTPELINRARY LTYLYCRQPAKAIRESQELA WKKQATHEYQVLVTRCKQTL HQVEPLREIEPGRKRLVFDENL RPKQNPPIHLLDTCWPLTVDEH ANRSSIGNNNISFVNVRAVVTN VLNTMRTACNSQATIQIYNADI ARDFGTRGIFSINSGFSTVIRGG VVTVDLSAGAAIGDSALAFVID DGLVAVNLDTDGLRIGDGHGA LVIHRCVAGDINTVTAAADM DLEDPRIISARFGVVRTQVRTW VALYKEKHGEKGLIPKPKGVSAD PECVLGRESCDRAAHVPYQAA AHFMLAGSGSVARWLKVYEER GEAGLRALKIGTKRNIASVDPE KAASALELSKDRRIEDLERQVR FLETRLMYLKKLKALAHPTKK AAEIPRSTFYHLKALSKPKY ADVKKRISEIYHENRARYGYRR VTLSLHREGKQINHKA VQRLM GPSHLKQRLRSSDTALTEERDF KATRPNEKWVTDVTEFAVNGR KLYLSPVIDLFNNEVISYLSER PVMNMRRSRPGVGYFYALTPV YLANRLQALLGVEQ/HHPDGL FLTGYVADGGYHS
24295	54663	A	24433	3	158	
24296	54664	A	24434	1	3432	

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24297	54665	A	24435	1298	2649	TFITRPTSNGTISIFKLMNRRRLR GGNVATLR/RLTIGMIFQDHL LMDRTVYDVAIPLIAGASGD DIRRRVSAALDKVGLLDKAKN FPIQLSGGEQQRVGIARAVVNK PAVLLADEPTGNLDDALSEGIL RLFEEFNRVGVTVLMA THDINL ISRRSYRMLTSDGHLHGGFGG RLDRFRKSVGGSGDGRNAPK RAKSSPKPVNRKTNVNEQVR YAFHGALQDLKSKPFATFLTV MVIAISLTLPSVCYMYKNVNO AATQYYPSPQITVYLQKTLDDD AAAGDPDRPSLQLRWRVIPGFS IAVAIYFLNESLGRPLMITGYSA ECSLAWPVRSGLRKAPMKTFP LQSLTIEAQKQFALVDSICRH FPGSEFLTGGDLGLTPA TELKPR RLPSGVEQVLADAFHAQAAAL VQGAGTGAIAGLAALLKPGQ RLLVHDAPVYPTTR
24298	54666	A	24436	546	707	
24299	54667	A	24437	428	1464	RNSRSLAEISRLRGQTRSGPLM LLNLQSMGASWYLSPIVDLFN NEVISYLSERPVMNMDHLL MDRTVYDVAIPLIAGASGDD IRRRVSAALDKVGLLDKAKNFP IQLSGACWHCRAVVKAPVLL ADEPTGNLDDALSEGILRLFEEF NRVGVTVLMA THDINLISRRSY RMLTSDGHLHGGFGGRLDRF RKS VGGSGDGRNAPKRAKSS PKPVNRKTNVNEQVRYAFHG ALQDLKSKPFATFLTMVIAISL TLPTSCYMYNIAKSERISDIST QLNAFPGCEVAVSDAPSGQLIV VVEAEADSETLIQTIESVRNVEGV LAVSLVYHQEEQGEETP
24300	54668	A	24438	1	429	
24301	54669	A	24439	307	424	
24302	54670	A	24440	300	468	
24303	54671	A	24441	946	1558	KGCVSIPFFSFWASVMSNLTYL QGYPEQLLSQVRTLINEQRLGD VLAKRYPGTHDYATDKALWQ YTQDLKNQFLRNAPPINKVMY DNKIHVLKNALGLHTAVSRVQ GGKLLAKVEIRVATVFRNAPE PFLRMIVVHELALHKEKEHNK AFYQLCCHMEPQYHQLFEDTR LCNRIRLNGHDHFRRRYALFRV NTGRTASPVIQP

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24304	54672	A	24442	1	774	
24305	54673	A	24443	1	452	MELKKLMHSHIPDYRQAWKV EHKLSDLLLTICAVISGAEGWE DIEDFGETHPDFLKQYGDFFENG IPVHDTIARVVSCICPAKFHESFI NWMLDYHSSDDKD/DHRN*W KNTPAFL*QESP*GSDSCH*CVL NNAQSGHRTDQDG*EIQ
24306	54674	A	24444	486	572	
24307	54675	A	24445	1	683	MHSLVIGQIKTDKKSNEITAIP LLNMLDIKGGIKITDAMGCQKD IAEKIQQGGAVMNLQRDDST LIRIFALHELHRLKEHGLTRGAL LDYHSRYKLVLAAHPQESRK LGPVVDIHWQNLDDYSPQY RQRVVVLLSHPANARDHTNVL MHVQGYFRPHIDSTERQQLRAL IDSYRRGEQPLAPLMRIKHVM ALYPDAWLSGQRYFELWPRVI NLRHSGVL
24308	54676	A	24446	896	1066	WRLSPSSR*LMPKVPRIQAYFT T*YCS*VIQRSPC*FHCYSRSIPW AWGAGKQSLT
24309	54677	A	24447	1	3660	
24310	54678	A	24448	1	1530	
24311	54679	A	24449	1	1890	
24312	54680	A	24450	746	1872	KHWRGSLISLSTPARFNGGPFW GANQGGDPKGRGGSQRALFR KNNRGGETVSGAEDACIVNNN AAAVLLMLAATASGKEVVVSR GELVEIGGAFRIPDVMRQAGCT LHEVGTTRNTHANDYRQAVNE NTALLMKVHTSNYSIQGFTKAI DEAELVALGKELDVPVVDLGL SGSLVDLSQYGLPKPEMPHELI AAGVSLVSFSGDKLLGGPQAGI IVGKKEMIALRQSHPLKRALRA DKMTLAALEATRLVYLHPEALS EKLPTLRLLTRSAEVIQIQARL QDPLAAHYGAFAVQVMPCLS QIGSGSLPVDRLPSAALTYTPH DGRGSOLESLADRWRELPVPVI GRIYDERLWDLRCLDEQRFLL
24313	54681	A	24451	1358	1419	

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24314	54682	A	24452	1	1568	MKGRNIDAQEIQKRYGMVGD PVIIGVVVLGLIFGLAAGEGFKGC ASLMITVAAIMVLFPRMIRLIVE GLLPISDGARKFFQKYFKGREV YIGLDTAVTLGHPPTIAVGLLLI PIMLILASILPGNKVLPLADLPV APFFICMATVIHRGDLVRTLISG VIVMITVLLIATQFAPYFTEMAL KGGFSFAGESAQISALSVGNMF GWSISELSLGIHGRVVAVGIVA SVVLFLRLVLSMSWLKEVIGTEK AVIAMCHLRALPGDPSFDAQLG MNWVIDKAWDDLMAQLQNGG VDVAMFSNEFSLPYLTKVRPET TAAMARIHQLMDSIRIPFGVNV LWDPVASFDLAMAATGAKFIREI FTGAYASDFGVWDTNVGETIR HQHRIGAGEVKTLFNIVPEAAV YLGNRDICSIAKSTVFNNHPDA LCVSGLTAGTRTDSALLKRVKE TVPDTVVLANATGVCLLENVEEQ LSIADGCVTATTFKKDGVFANF VDQARSNNPSAIPAFAFVKSIDG DRYQINPNRHGVNDG
24315	54683	B	24453	1	3352	
24316	54684	B	24454	60	2284	
24317	54685	B	24455	1	2475	
24318	54686	B	24456	1	2890	
24319	54687	A	24457	1065	1139	
24320	54688	A	24458	282	615	
24321	54689	A	24459	2657	2919	
24322	54690	A	24460	1	835	
24323	54691	A	24461	167	338	
24324	54692	A	24462	834	1515	LRWCSPCCRWSKDRAAPSPA YSRLSSHVIAAGYVGGGVARG HSWVFVALTLVLTAVLFSLAGL LNGVFAKTFDDISLVPTFVLTP TYLGGVFYSLTLLPPFWQGLSH LNPIVYMISGFRYGFPLNHNH PGVAVDINRLLLPRKQEKLGK LDKDLQIAGVQDAFADKSKLS DQEIEQLQAFAEARKVSSAQAK MEKDAADNEAKGKEYREKFR QIPSVSSCQKQ
24325	54693	A	24463	3	557	
24326	54694	A	24464	255	693	
24327	54695	A	24465	3	242	QKAPVLANQRQPRRPTGALLLE /SLPLVAESSDG*EPMNTATEPH SRPLP

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24328	54696	A	24466	1	2636	MKNIIRTPETHPLTWRLRDDKQ PVWLDEYRSKNGYEGARKALT GLSPDEIVNQVKDAGLKGRGG AGFSTGRKWILMPKDESMNIRY LLCNADEMEPGTYKDRLLMEQ LPHLLVEGMLISAFALKAYRGY IFLRGEYIEAAVNLRRRAIAETTE AGLLGKNIMGTGDFDFELFVHTG AGRYICGEETPLLKPQTGVWQ RHSCWKLQELAMNDRDFMRY SRQILLDDIALDQQKLLDSQV LIIGLGLGTPAALYLA
24329	54697	A	24467	506	673	
24330	54698	C	24468	1	3411	
24331	54699	A	24469	2455	2694	
24332	54700	A	24470	1	1081	MGGLRDPWLHKLRSLWGLCR YGHKEQYDHRIELNAPGDDTT LVPTGLAIHIADPSLAAMMLPR SGLGHKHGIVLGNLVGLISDY QGQLMISVWNRGQDSFTIQPGE RIAQMIFVPVQAEFNLVEDFD ATDRGEGGFGHSGRVFCNMAE KQTAKRNRREIQLSLAMLES SDGSQRITTAKLAAASVGVSEAA LYRHFPSPKTRMFDLSIEFIEDSLI TRINLILKDEKDTTARLRLIVLL LLGFGERNPGLTRILTGHALMF EQDRLOQRINQLFERIEAQLRQ VLRREKRMREGEGYTTDETLLA SQILAFCEGMLSRFVRSEFKYRP TDDFDARWPLIAA/SCSNMTPD
24333	54701	A	24471	93	475	RCKCADAATRGKSRRLPDVQ NSARQYQ/W/GCATHARSG*HI VEAVQSG/TPPQPLRPRGTSRKV STDRYWRAASQLPAQYQDLTSI YDVVYTPDPRVAKRAFKSPDD GPVMWRMGHQPHLIPRNVLAQ
24334	54702	A	24472	254	1150	RFLTCRYGPGMAEDMQSLVGG TVTRSG*LSVVVNNNGE/LLAK ELSVQVQIRPEYLDRLHAFSG GQRQRIARALSSQPDVIVLDE PTSALDISVQAQILNLLVTLQEN HGLTTYVLISHNVSVIRHMSDRV AVMYLQGQIVELGDAQQEIAQA LRRTPAPMVYIGNLGRSLPA ANLKLESKLAIMEQYVGKKVID AVIVGPKVDVSAVKERIVIEQV LEASDIPYRHDRQLLHNALEKA LQALGGLEVIQLYRRDSNLVPG QLLKTSMEGKTRLYAADSRLIA AKGSPQIPTLDSLK

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24335	54703	A	24473	1874	2927	KEDQVKGGMVCPKLLCQGTR *RGGVVGGISQASVTSGVYSA SCQPTPAIMQLHL/ANAASRRL QPDNRPNPGWHRPPIHAFTTP GLVSVSFLGPCSTPTCLPFSES SVGESVNLWPQSNENLRRTL GEGNLLTFIGNGKHEIIASIFFA FSEGISAQSHWQPRYISPAVCT LVTEIDIKANKITFSIFDENAGA WLPFFCKAVVPGWVYKPNLGH EIACVDHWLMPNRLIENLCDIM LPIWVLTKFNDCCAGCVPCCVII VDDALHGAPKRMCCITRGM LLKLSVHAATRSTLQQAASHGH CAWSAPGWLDTSGMGDRLW WTLHEVLRDLCTSHGNIVESAR
24336	54704	B	24474	1	672	
24337	54705	B	24475	1	2496	
24338	54706	A	24476	3260	3363	RPDSGGP*RRRYLRCAHRRR AVRNQQLTACA
24339	54707	A	24477	112	224	
24340	54708	A	24478	1614	2326	CTYSRCKRPDKRSASGNFALSS LKSSPLTKNRRYWKVSPTHLLL SKRPKISLNAYFGACSLVRPVL AAASDWTLQGAWSPTRAKALP ICESWRIPYADSLSLAASCDV FVHSSSTASHFDVVSTLLNAGVH ICVDKPLAENLRDAERLVEGIM REWREERGQGVVHKPIPGWQS TLEQRGFVGCARHFIECVQNQT VPQTAGEQAVLAQRIVDKICSS FNVVVRVAPLGDPIQSKPVV
24341	54709	A	24479	19	885	
24342	54710	B	24480	1	1704	
24343	54711	A	24481	974	1156	

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24344	54712	A	24482	162	1602	HRRKRARGTPKATTTTRKPARTI ETLSPLLAILAFAPKLAICTRSPL L/DDMTPTFTQCTNAYSHSGIRNP TAISSAAYPRRITGY/KLGPTE ERTVYGIYGISESNLAECEKGV KSAVALTPALQPIDGVAVSVID AAVALGNTINEMDKYYTQENY KDDAFAGKKTLLHQTFLKNLEA FEPVAESYHAAIQEINDKRQLA ELKNIEEREKGTFFHYYS LAVMI SAKQINNLI SQDKFDAEAAAMKK VSELETLVAQAEADKGGMNF SFINSAGQYQLEAKKYVRRIRD KVPYSDWDKEQLQDANSSWM VEDSFPRALREYNEMLMTRIGG GAGDQDMVNDFSYSPQLVGRG WFNDQVATGCTRDSTFNQQQV ALSVNAYVVVNRFGKIDWKPM YAEADKLLAKPNMRFKSDKLV GDLSIGDQQMVEIAKVLSYESK VIIMDEPTDALDTAEASLFRVI REMKSQAPRYCLYLPPHENNL
24345	54713	B	24483	1	1263	
24346	54714	B	24484	148	894	
24347	54715	B	24485	1	1071	
24348	54716	B	24486	168	1088	
24349	54717	B	24487	1	1236	
24350	54718	B	24488	1	849	
24351	54719	B	24489	1	1548	
24352	54720	B	24490	1	1372	
24353	54721	B	24491	1	2469	
24354	54722	B	24492	1	1917	
24355	54723	B	24493	1	1159	
24356	54724	B	24494	1	2294	
24357	54725	B	24495	217	2476	
24358	54726	A	24496	477	916	SLPECEDRVQYRRSLFADPSYR YGLARHGDP RRAGR LRDV*PL HE*YRHWHDQS/RLLIASVLPQ VWHGACNAMTSSCIARQVS*N TALIIRMRKGDLSAVMSSQTGL INIVRRG LLLSCFRLTAMKISTV SPFRPQMPSIVRSVWC
24359	54727	A	24497	1136	1317	
24360	54728	A	24498	3	317	
24361	54729	A	24499	1	1245	

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24362	54730	A	24500	85	1293	ITVATTQHQAQLTLRRAGIRQP DMAVQRDHLPRFVAGVIRHIM LMLHSQRRTGLLITAKNRLFF QRRSVPKFHSKLNQAYCLJAAT DCPRRLLLICRYPHHFLHQLIIL AIGISAVFEPHQIIGVSRCCPR HLGVERVFLFLNDFIEQVIIRC HVVQCSAPAAAANIQAHPWF* LQFFTNNHFELRLGRFQIIGIFPV SAGILHEGIKHAAEQVITQIVML FADYPGTFTFL/RD*RDERRQY AACL*NDGGVGSRLRVRCL* KTYPVGHIPTSHYPN/CSPNPKE PSCRTRLKKSGFFTRISAGAEPL MAIPARLSNSLACGARDSAAKE VLLWFRFVLLKQTLNWTTK NVTSLWRTLGSPVGVEVRAW TIPV/VSNAAGSGQNPY*F*KR
24363	54731	A	24501	2794	3531	SPRDSPTFWTKGGPGGSRGKAL RLVVGDTDFHQAADNIPDHMMY KSIRFNHYHHIRTVTRDINMHNV APRGSGLALHRTERGEIILAQQ ALRSPMHPFSVQRFVKMGYPFT QYRRAQPMIVDDVAITASRGA KSGMKIIRYSFNPTSDVTR*IRI YAQGP RR VFAQRCGFEMHNL GTVYPCVSTPGAEDGDGFVRH LGERLFQLLHTADFLPLPAVI LTGGVLNAQRNFNRRLLPYVE
24364	54732	A	24502	1	1767	
24365	54733	A	24503	1	1275	SNPTAIGGRPRRPYQAEDRSLD FVDALNRKILKDSIFHALQTIM VGIKDFLRLTQVFFDLATRIPRH LYHPVDITTHYGRFCRHRHHF QLLQLCFRFLCFLRHLRRVDF ALQGFVFVRRVVHFEFFLNSF HLLVQIVLTGLFLHLLFNAVAN AFLNLQQIDFRFHHCHQIFQTFV NVGHLQNRHRKIGIVFRSDVL EHPHRNNTIKLVVQVTHLQQN GDIQAFATFLSHFLLFGRNGDA HHAYVIIRCHVVCQSAPAAANI QYAHPWF*LQFFTNNHFELRLG RFQIIGIFPVSAAGILHEGIKHAAE QVITQIVMLFADYPGTFTFLQIE ETSAGNTQRVFEMMGELVLET RLRSPAGFTQWIPHQGRWSCL PVPRTGLALLSPWVVDGTGR GAGGGTPQGGSSCTGAHGGGG
24366	54734	A	24504	1	2052	

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24367	54735	A	24505	1	1060	MNARQQVAALRVPGVEKATIV YRRSLQEMPAWREEVEEALHD GFRFLNNPERFDADGTLTLRV SLGEPDEKGRRRPVETNETVTL LVDSLITAIGEQQDTEALNAMG VPLDKNGWPDVDHNGETRLTD VFMIGDVQRGPSIVAAVGTAR RATDAILSRNIRSHQNDKYWN NVNPAEIYQRKGDISITLVNSDD RDAFVAQEAARCLECNVCSK CVVDVCPNRAVNSIAVPGFQNR FQTLHLEAIVCNECGNCAQFCP WNGKPKYKDKITVFSLAQDFDN SSNPGLVEDCRWVPHRGLYH RLYREPTWRSEWPRRHICPEGS TFPERHCDHLSANNSRNKLLPL QKPGFIN
24368	54736	A	24506	1316	2678	
24369	54737	A	24507	2172	5242	IYFSERLPALCTPDHYREPCQ YNCRLDYDSALNIRELKKVAL EKGWDEYKQRWHKPAAGSGSR HPVAVIGAGPAGLAAGYFLAR AGHPVTLFEREANAAGGVVKN VPQFRIPAEIQLHDIDFVAAHGV KFEYGCSPDLTIEQLKNQGFHY VLIAITGTDKNSGVKLAGDNQN VWKSPLFLREYNGTALKLKG HVVVVGAGNTAMDCARAALR VPGVEKATIVYRRSLQEMPAW REEVEEALHDGVEFRFLNNPE
24370	54738	A	24508	192	484	RGLVHRGRYRWRQKWSAGSP ARHPV/SQSTTDPATHALSTKII SPIPNAPISALARTTATRL*RSM NQPPVKRPTVIPRVKPA*ISEPE VGPIILGP
24371	54739	A	24509	1	1713	
24372	54740	A	24510	1	651	
24373	54741	A	24511	3	783	PVLSKTPLTAKAIDAQPDKP YKLTDSLTPGLFLLVHPNGSKY WRFYWLNRFLQAIGVYPLI TLKEARRRATESRSLIANGINPV EQARKEKAIDALNMAAGFKKV AEDWFATRVGGWSESYAKQV RSALKEDVYPVLGKRISVDITA RDVLLALLQKKERTAPEQARNV AGASVRSSSLPLSPNWGGWLA RAAFPHHITIAARMTKHPPCW WCTILACRQASLAVRGSTHYSL ELLIRRHILSLRSPICASPLTV

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24374	54742	A	24512	746	2387	WTALPARLKKQIRSGRKLPLTVM PALRETDTFDTFMESWYYAR YTCPQYKEGMLDSEAAANYWLP VDIYIGGIEHAIMHLLYFRFFHK LMRDASMTNPSSVPRAGGPAL LFENPKGYSMPLVCLNFGTPKR VAMGMGQEDVSALREVGKLL AFLKEPEPPKGFRLDFDKLPQF KQVLNMPKRLRGAPCQKQIV SGDDVDLNRIPIMTCWPEDAAP LITWGLTVTRGPHKERQNLGIY RQQLIGKNKLIMRWLSHRGGA LDYQEWCAAHGGERFVSVVAL GAVPATILGAVTPVPDTLSEYA FAGLLRGTKTEVVKICISNDLEV PASAEIVLEGYIEQGETAPEGPY GDHTGYINEVDSFPVFTVTHIT QREDAIYHSTYTGPPDEPAVL GVALNEVFVPIQKQFPEIVDFY LPPEGCSYRLAVVTIKKQYAGH AKRVMMGVWSFLRQFMYTKF VIVCDDVDNARDWNDVIWAIT TRMDPARDTVLVENTPIDYLDLF ASPVSGLGSKMGLDATNKWPG ETQREWGRPIKDPDVVAHIDA
24375	54743	A	24513	576	878	NLGSVWHYFRRSPEPATHHDA ANLERSPAA*RLSGARYRILAV *ADQSQTGSGDGSPDLQTGRV GDEARHRKRGLHVPQPRSEPPV GARGFPYRFATRRW
24376	54744	A	24514	2	878	
24377	54745	A	24515	1	735	
24378	54746	A	24516	1	1992	
24379	54747	A	24517	721	1239	

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24380	54748	A	24518	1	1954	RQLNGVQLAFRESFHTVTRVTE QHAAGA VAIHQHRNQLLTGAL GIFAVA VVCLQQRDLILLADHL AEHVQFVIAQFVTCQQHNGV RNRITIIFFLLFNELRKIVETVRVQ QTQTGEVAFHPQLFRGRVVYG PDLNARRNGVINCSTLEDPPQF GLILFVYITIGIQVGPFFASLRV SGLRLNLFAVLIVIGGLVTAIL HKLFDIPLPVVLGIFSGAVTNTP ALGAGQQLRLDLGTPMEMVDQ MGMSYAMAYPFGICGILFTMW MLRVIFRVNVETEAQQHESSRT NGGALIKTINIRVENPNLHDLAI KDVPIIINGDKIICSRLLKREETLK VPSPDTIIQLGDLLHLSRGSPL DTQDIDLQINSSVEKQFGDAIRT TILDVILARYNVRGVQLNVDDK GALDCILRARLEALLARASGLP MISASLQQRKTRTRRSMLFVPG ANAAMVNNFSIYPADALMFDL EDSVALLREKDTARMVYHALQ HPLYRDIETIVRVNLDSEWGV NDLEAVVRGGADVRLTKTDT AQDVLIDIEKILRIEKACGREG GSTGLLAAIESPLGITRAVEIAH ASERLIGIALGAEDYVRNLRT RSPEGTELLSARCPIWQAARSA GIQAFDVTYSDANNEAGFL/QE
24381	54749	A	24519	5121	5492	
24382	54750	A	24520	2520	3525	
24383	54751	A	24521	1	1263	MAINSPLNIAAQPGKTRLRKSL KLWQVVMVMMGLAYLTPMTVFD TFGIVSGISDGHVPASYLLLAG VLFTAISYGLVRQFPEAGSAY TYAQKSNPHVGMVGVWSSLL DCLLAVVIAAIYVGFSLAGFHV YIGMLFVPGANAAAMVNSFIYP ADALMFDLEDVSALREKDTAR RMVYHALQHPLYRDIETIVRVN ALDSEWGVNDLEAVVRGGAD VVRLPKTDTAQDVLIDIEKILRI EKACGREGPSTGLLAAIESPLGI TRAVEIAHASERLIGIALGAEDY VRNLRTSPEGTELLFARCSIL QAARSAGIQAFDVTYSDANNE AGFLQEAHAIKQLGFDGKSLIN PRQIDLLHNLAYPTQKEVDHAR RVVEAAEAAAREGLGVVSLN GKMVDGPVIDRARLVLSRAELS
24384	54752	B	24522	62	405	

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24385	54753	A	24523	891	3240	RYRKSPGSRW/CMSCILTSWITT MFPI*RLGQWC*NPCVTMAL/L APIDVHLMVKPVDRIVPDFAAA GASITFHPEASEHVDRTLQLIK ENGCKAGLVFNPATPLSYLDY VMDKLDVILLMSVNPFGGGQS FIPQTLDKLREVRRRIDESGFDI RLEV DGGVKNVNNIGIEAAAGA DMFVAGSAIFDQPDYKKVIDE MRSELAKFEDIRGVAFDL DGT VDSAPGLAAAVDMALYALELP VAGEEKVITWIGNADVLMER ALTWARQERATQRKTMGKPPV DDDIPAEQVRILRKLFDRIYYG EVAEEGTFLFPHVADTLGALQA KGLPLGLVTNKPTFPVAPLLEA LDIAKYFSVVIIGDDVQNKPPH PDPLLLVAERMGIAPQQLFVVG DSRNDIQA AKAAGLDAQARRK NAGYYYYLRLAKRQMRAGVA EALRDDLLAAKLNVLVNAAGD YKFKQIASEKLLIVVTSTQGE PPEEVALHKFLFSKKAPKLEN TAFVAFVSLGSSYEFCQSGKD FDSKLAELGGERLLDRVDADV EYQAAA SEWRARVVDALKSRA PVAAPSQSVATGAVNEIHTSPY SKDAPLVAVRPNVEGRARAG GASSFLADRV EEEGEVRV FIEH NDNFRLPANPETPVMIGPGTGI APFRAF MQQRAADEAPGKNWL FFGNPHFTEDFLYQVEWQRYV
24386	54754	A	24524	950	2124	MSLISSVIAATWLHVKSRYRLSC GFYACQSLVLS/IFPTLSCLFA AEQLLIWSASAFITKVLVPLIM TYAARNIPQNIPEKALFGPAMM ALLAALIVLLCAFVVQPVKLP ATGLK PALAVALGHFLLGLLCI VSQRNLRQIFGYCLMENGSHL VLALLAWRAPELVEIGIATDAIF AVIVMVLLARKIWRTHGTLDL TPLLFSLLCFACRKRRLSATRTV TVLHSLGITLLILALWVYQTA ADAGEIFAAGLWLHIDGLGGFL LAILGVIGFLTGIYSIGYMRHEV AHGELSPVTLCDYYGFHFLFLF TMLLVVTSNNLIVMWAIEAT TLSSAFLVGIYQORSLEAAWK YIIICTVRVAFGLFGTVLVYANA ASVMPQAEAMIFWSE

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24387	54755	A	24525	1	757	RWRLLPGVPFNGFFSKFPLFAP GFALSVEYWILLPAMILLMIESV ASFAWFIRWFGRVVPGKPSEAV ADAAPLPGSMRLVLIIVIMSLI SSVIAATWLHVKSRYRLSCGFYA CQSLVLVSIFATLSCLFAAEQLL IWSASAFITKVLVPLIMTYAAR NIPQNIPEKALFGPAMMALLA ALIVLLCAFVVQPVKLPMATGL KPAL/AGLATDAIFAVIVMVLL ARHWRTHTGLDVNNLHALK GIMSCSYSS
24388	54756	A	24526	249	3943	
24389	54757	A	24527	1	1278	
24390	54758	B	24528	48	144	
24391	54759	B	24529	27	239	
24392	54760	A	24530	1	551	
24393	54761	A	24531	3	258	MLFDEPTSALEPEMIN*VLDVM VELANEGMTMMVVTHEMGFA RKEANRVIFMDEGKIVEYSPKD AFFDDPKSDRAKDLAKILH
24394	54762	A	24532	2	979	
24395	54763	A	24533	1	4116	
24396	54764	A	24534	1	1195	MLIAEGLMTAKNITVITNSLPA AFALSENKDITLVCCGGTVRHK TRSMHGSIAERSLQDINADLMF VGADGIDAVNGITTFNEGYSIS GAMVTAANKVIAVLDSKFNRR RGFNQVLPIEKIDIIITDDAVSEV DKLALQKTRDTSLVYVLSLADF FRTASTIGERDGTQVEMILFAGF VYLVISLSASLLVLTDCSTEVK KGEVVVVCGPSGSGKSTLIKTV NGLEPVQQGEITVDGIVVNDKK TDLAKLRSRVGMVFQHFELFPH LSIENLTLAQVKVLKRDKAPA REKALKLLER/VSGFFAHANKF PAQLSGGQQQRVAIARALCMD PIAMLFDEPTSALEPEMINEVLD VMVELANEGMTMMVVTHEM GFARKVANRKHITRSTIALQSL ATCT
24397	54765	A	24535	383	962	TDNDRPGLGTMKKASAVITN VAVVLSGRYRERASGEWAAL SFLRPHTLTVFVPHIQWDDPQ MSRPSGRHLFRCRTVQRKHAL QVVEKFRPFFPSDRYRYGAPGD YAQSFGQIDDVVKAQITPSKF RRFLRVSF*IRLPILHSGKSPLR RMPNLMRRHSHTARHYPALGT RGQPPTDRQERPAVASGO

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24398	54766	A	24536	1477	2387	
24399	54767	A	24537	1	1560	
24400	54768	A	24538	305	718	
24401	54769	A	24539	1	2161	MNDVDRVGGKNASLGEMITNL SGMGVSVPNGFATTADAFNQF LDQSGVNQRIYELLDKTDIDDV TQLAKAGAQRQWIIDTPFPPEL ENAIREAYAQSLADDENASFAV RSSATAEDMPDASFAACTLVPG QNLSTSNKDVIELPDNQYDLDK MVNIYPVTPGLIDQLRAKPIMS QANPELEQQIANYEYRIGIGDV LMVTVDWHPPELTPAGQYRSA SDTGNWVNADGAIFYPIGRLLK VAGKTLTQVRNEITARLDSVIE SPQVDVSVAAFRSQKAYVITA EVSKSGQQFITNIPLTIMDAINA AGGLTADADWRNVVLTQNGV KTKVNLVYALMQRGDLRQNKLL HPGDILFIPRNDDLKVFVMGEV GKQSTLKMDRSGMTLAEALGN AEGMNQDVADATGIFVIRATQ NKQNGKIANIYQLNAKDASAM ILGTEFQLEPYDIVVTTAPLAR WNRVISLLKKLERLTSIAITLPGI IDTENGIVHRMPFYEDVKEMPL GEALEQHTGVPGGEAKGLVGAP PGARDVIQVVSIPNVGRAVIPN GHLLPGSSSLVEIAHTQGGL MGKRCYCGNHGCLLETIASVDSI LELAQLRLNQSMSSMLHGQPL TVDSLCAALRGDLLAKDIITG VGAHVGRILAIMVNLFPNQKILI GSPLSKAADILFPVISDSIRQQA LPAYSQHSVESTQFSNQGTM
24402	54770	C	24540	1	1389	
24403	54771	A	24541	405	576	CEMGAPPWPGCWLSLFDVDG RFVLAWMLFQGSYLAGALGDQ PVHIHLGQLLALWRPL

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24404	54772	A	24542	1	1127	MARTLAHELIDFGEIKRGLLGIK GTEMSADIKAFLNDVQRGAF VSEVLPGSGSAKAGVKAGDIIT SLNGKPLNSFAELRSRIATTEPG TKVKLGLLRNGKPLEVEVTLDT STSSSASAEITPALEGATLSDG QLKDDGGKGIKIDEVVKGSPAAQ AGLQKDDVIIIGVNRDRVNSIAE MRKVLAAKPAILALQIFPVDHR GAIGGQTTDIPDPSPGINHDRC MKGLSFAGEMVTYNTAHARRA FTNQPRDFMSVAWLKGIAILP SVGEVRSPVAGRIASLFATLHAI GIESDDGVIELIHVGIDTVKLDG QIFSAHVNGEAGLKRvVKKKEH AD/VQRHAESV*RRGQAQGTG GIRRDQNRVQPGCERCTHQLLR
24405	54773	A	24543	95	599	QIMRMLNGSSTPNTSLPTPQAF DRSLPINATARPSTSTRHSAE SSISRDVSNVS/HSGG*TGGIK G*CHAHADLTACHEADSRGSP SHAVAAVALHVLD/GWYLGQD TAAAYATGSVSPSSGNQFSRP SAAGRFSAVSPAQGAQRHPGR ARRRRRRRTAGGCCR
24406	54774	A	24544	640	890	LANAQLGSNEISIFQCFAAIQRFI KLHRDASVINHPLAE/TRK*YPV SVYHLRHPPAIR*PAIRDNA**I LPVTGPGYSCSRHQ
24407	54775	A	24545	3	257	ETDIFICDSREFFHHFAKASVHI* PVVSIANFAIQSGKILALGAENI ATTSDRRARQKQAVCKAHDAS SVSFRTLSVRPTNDPC
24408	54776	A	24546	332	1047	RTRPYCPGMGNPEMTGWMAA AVVTLMIRMCFSVYTMLESCE QRMVIVGYGRCFADRQNLMLVC LRSMNPVFTGSCARMRCCLSEN LLYRHRNGHIQAEW*KKAIISD VKQYRTSCWERWNAASA TIFR/ LSPVEW/LTDNGSCYRANETRQ FARMLGLEPKNTAVRSPESNGI AESFVKTIKRDYISIMPKPDGLT AAKNLAFAFEHYNEWHPHSAL GYRSPREYLRQACNGLSDNR CLEI
24409	54777	A	24547	1200	1544	LTGVADGNVDKPCYKFARLW YWIYAPFPPIRVVKVAYREYRP PTTPRVQRDLTFCHRPAPDR MHRV*SSHRALPGCWSKVPAQ KSSRTVSGTD*VDLLSPRAQRA PSPLQG

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24410	54778	A	24548	263	625	
24411	54779	A	24549	742	851	VSAQQRVILNKIAVLNRK*RYG CWRLWICPYISRHLNLSNPLQA RCRRYSRGER
24412	54780	A	24550	1	532	MKTLLIIDANLGLTRLYGEDPAG AAARKAKLEIIDNPNDPAEMAI VGDSIPNDALNGKNVWLGDIS RAVAHPFLFLSERKGHAKPYTA PVAATAPVGASGPKRVVAVTA CPTGVAHTFMALKPLPKPKRN VAGIPDTGQCETVQITSCW/AA VETPLRQRSSVSSGVADG*WF MLPG
24413	54781	B	24551	1	888	
24414	54782	A	24552	1	2283	
24415	54783	A	24553	992	1662	KKAISDGLTGSSSAVITERDC VSRSRWTAIVIRHCTGRSLPAA STVKQYRTSCWERWNAASATI FR/LSPVWELTDNGSCYRANET RQFARMLGLEPKNTAVRSPESN GIAESFVKTIKRDYISIMPKPDG LTAAKNLAEAFEHYNWHPHS ALGYRSPREYLRHGLVSFISLQ KFINDFAFEDGLFSGYDAEKRQ YEKSSWNYQLDENGYAKRDET LTHPRC
24416	54784	A	24554	1	2262	
24417	54785	A	24555	158	410	
24418	54786	B	24556	1	2607	
24419	54787	A	24557	715	1016	KSAAVPRSGASSQSDSAHFAQP EYAAFSRFRGSRFRHPRAA*YF GRLNHHVRSERGINP*YHRFNL HWRYVADAISADGAFRTVSGG GRRSGAGRVDWQ
24420	54788	A	24558	652	1214	RTDHCVSRSRWTAIVIRHCTG RSLPAASTVKQYRTSCWDRWN AASATIFR/LSPVWELTDNGSCY RANETRQFARMLGLEPKNTAV RSPESNGIAESFVKTIKRDYISIM PKPDGLTAAKNLAEAFEHYNE WHPPSALGYRSPREYLGQRACT GHAIGSGPSSAFFGAPVRRVSRT SVTAKACPRGLL
24421	54789	A	24559	647	1976	
24422	54790	A	24560	289	574	ETPASSPTLRTSIPSISWMTGRSL RRVMMLCFFPSESGTVSEKAWP EWSSFSSPPSCRTSASSPPSHLR /NIDVSPKHVVFATIPRNYTMSF LPR
24423	54791	A	24561	816	1375	

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24424	54792	A	24562	1	3993	MSQKLKVVTTIGGGSSYPTELL GFIKRYHELVPSELWLVDVEGG KPKLDIIFDLQCRMIDNAGVPM KLYKTLDRREALKDADFVTTQ LRVGQLPARELDERIPLSHGYL GQETNGAGGLFKGLRTIPVIFDI VKDVEELCPNAWVINFTNPAG MVTEAVYRHTGFKRFIGVCNIS IGMKILKTRITLDTTGSTGDTL LTQSLLMELSALCRVEVEEGLA LVALIGNDLSKACGVGKEVFG VLEPFNIRMICYGA
24425	54793	A	24563	1136	3608	KKAISDGALTGSSSAVITERDC VSRSRWTAIVVRHCTGRSLPAA STVKQYRTSCWERWNAASATI FR/LSPVEWLTONGSCYRANET RQFARMLGLEPKNTAVRSPESN GIAESFVKTIKRDYISIMPKPDG LTAANKLAEAFEHYNWEHPHS ALGYRSPREYLRQACNGLSD NRCLEIYGQIQLGTGELNITTGV VVTAARDTHIALNFQKRRTTGLA TQSRQRCQNRVRVMGKIVYRD AIRFTTQLQTATSINKRTRQVSG ICRRYTNMASRCNRHQAIHVIM FAYQRPFFHFAHFFAIQQNFPGS IGGQLFRLPVTLTHQLLLAPA AHRHGLFQVDVIFRPDNTALPR NDTHQMVELFLDRFQVVKDIG VIELKVVEDQRTAVMMNKFRA FVEKGAVILIRFDKKDIFLQYR FHTRISTGHGVANNHQIRLRLE LAGIVPLNQLNPLNSVPMINI MNGGENADNNVDIQEFMIQPV GAKTVKEAIRMGSEVFHHLAK VLKAKGMNTAVGDEGGYAPN LGSNAEALAVIAEAVKAAGYE LGKDITLAMDCAASEFYKDGK YVLAGEGNKAFSTSEEFTHFLEE LTKQYPIVSIEDGLDESDWDGF AYQTKVLGDKIQLVGGDLFVT NTKILKEGIEKGIANSILJKFAQ HAGLLHMYTCAMLGVGQGQCW RYCMSQAFKEDRFAQDQVRVAV
24426	54794	B	24564	83	2851	
24427	54795	B	24565	1	1578	
24428	54796	A	24566	574	753	
24429	54797	A	24567	1	2112	
24430	54798	B	24568	27	969	
24431	54799	A	24569	1	1773	

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24432	54800	A	24570	822	984	PSALCGCHSL*CSNASARFFAA VNPSGAFGCRADHPDGELFLTG YVADGGYHS
24433	54801	A	24571	1	4287	
24434	54802	A	24572	1	2384	
24435	54803	A	24573	3	3682	ACSARPSEAELELIDTLNADN TIDGILVQLPLPAGIDNVKVLER IHPDKDVGDFHPYVNVGRLCQR APRLRPCTPRGIVTLLERYNIDT FGLNAVVGASNIVGRPMSMEL LLAGCTTTVTHRFKTNLRHHVE NADLLIVAVGKPGFIPGDWKE GAIVIDVGINRLENGKVVGDDV FEDAAKRASYITPVPGVGVPMT VATLIENTLQAMSNMATFSLGK HPHVELCDLLKLEGWSESGAQ AKIAIAEGQVKVD
24436	54804	A	24574	1	1382	MLRGVNVLADAVKVTILGPKG RNVVLDKSFGAPITIKDGVSV REIELEDKFENMGAQMVKEVA SKANDAAGDGTTTATVLAQAI TEGLKAAVAAGMNPMDLKRAS RSRKGYPARIRQELNQKGISR EATEKAMRECDIWCA**RF*S DKHHHRT* ^Q /PTRHRYPDES PGSHNHRSAHALSSAQGYILLP RAVLSGWRFFENVHPTPGYPAG SGSVFVPPMTPSRRLPAPDNFA APHRYRVLKTGLLSPGCHVRN ADTL
24437	54805	A	24575	466	1215	
24438	54806	A	24576	1104	1923	LAIPMKDFITEAWLRANHTLSE GAEIHLPADSRLTPSARELLES HLRIKFIDEQGRLFVDDEQQQP QPVHGLTSSDEHPQACCELCRQ PVAKKPD ^{TL} THLSAEK ^{MA} KS DPRLGFR ^{AV} LDSTIAL ^{AV} WLQI ELAE ^{PW} Q ^{WL} ADIRSLGNIMR ADALGEPLGCQ ^{AI} VGLSDEDLH RLSHQPLRYLDHDLVPEASHG RDAALLNLLRTK ^{VE} TETVAA QVFT ^{RS} FEVLR ^P IDLQALNRL SSTVYVMMILSVTKQPLTVKQI QQRLGETQ
24439	54807	A	24577	243	644	HAGSVCP ^{SL} RYRCQRTAKRSGFY LLLKRLWSFSGNI*IHSGQQNPG RNQQLGLPRSRKGESSRAHPSC QRRPQVWPHPLAGSRPPRPWA ACARLGP ^{IA} PARQIPERWPGQV PVLADAHVLPCLAGSLRPALYD F

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24440	54808	A	24578	237	454	RSRLPEGVPVCWCNHSVR* RFPVGKHLRLWL/LALPGVRLIF RASTKRITGYINARSASIASASA RNRLV
24441	54809	A	24579	377	1155	KAYSFATMKSLAISRCWQNA* HVSFTVMVRW/LKGVQFRNHEI IGDIVPLAKRYAEEGADELVFY DITASDGRVYPTLITRLADRFQ VQCIVVGIDTWYDARNLKDISV VGLLGAQVPSVRAGMPQSRQ TEGAQGMVRNNEEGSLRLSHH QACKATHTQQWTLLEVTAQSSY NLFPEQWVKLFWGIRQGDPL AFSQKLSRQTQQQTQTTPRI VGQAPKDLQGTGTPTTHAVH SGDHAAGEQSCSKAPIYPI.T AQFSLETRSFWSGEWGYSTHG ELRRRDKGRRRFY
24442	54810	A	24580	1107	1458	RTFWWTTCSNLAPCAGGYPST GAALPVSRLPGRGLLSGWG EHNARYRAGTFLWALFCAAAY AYWRRQ/WGQYGMWFLRIRRG TLGDGTIRRVFVGLSWAAVVIV EIGVEHIGVFKA
24443	54811	A	24581	171	352	PPAPAESDGLPAHTTRARTTA DDLNRKRRQHVG*YRTRGSP RPNRTWVRVCYRSPHR
24444	54812	A	24582	5	226	
24445	54813	A	24583	476	1939	RPESQHNTAKPAMKVLEQARR FLGIRWLAPASLAN/PVILLVV GNILNIVLDVWLVMLGHMNVQ GAALATVIAEYATLLIGLLMVR KILKLRGISGEMLKTAWRGNFR RLALNRDIMLRSLLLQLCFGAJ TVLGARLGSIIAVNAVLMTLL TFTAYALDGFAYAEHSGQA YGARDGSQLLDVWRAACRQSG IVALLFSVVYLLAGEHIIALLTS LTQIQQLADRYLIWQVILPVVG VWCYLLDGMFIGATRATERNR SMAVAAAGFALTLLTLPWLG HALWLALTVFLALRGLSLAAI WRRHWRNRPGTGCLNTKGS QQQHRHDSITQHIHLQLLIRV KTTTTNNSQQTPOYPQCYQYHT DSRQHRQQRNMVCQRIPHALPS PRFRQISRGSTAKVPCAKARAF LRVKSPTLITRLADRFVQCV VGIDTWYDAETGKYHVNQYTG DESTRVTVQWETLDWVQEVQK RGAGEIVLAYVSE

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24446	54814	A	24584	1	50	
24447	54815	A	24585	354	456	HLFSEACCSPGVRLRCRPF*SP GTDRLVVMHGH
24448	54816	A	24586	494	835	ITWLPGRFPFQGSSEQFLAGVP GATGGSESVLHTRNSYKMLEV RREVAALISALKVSAKCRNCGS SHALTEP/ASSPCWRETSTRPTG APAPTIPPPAASPSGPMCVQPH GED
24449	54817	A	24587	3	726	
24450	54818	A	24588	1	1635	
24451	54819	A	24589	1614	2454	RTTHAPASTPNTGTMLCRPYPC CWRKRTPMIFRATPQWVFSMD QKGLRAQSLKEIKGVQWIPDW GQARIESMVANRPDWCISRQRT WGVPMSLFVHKDTEELHPRTL ELMEEVAKRVEVDGIQAWWD LDAKEILGDEADQYVVKVPDTL DVWFDGSGTHSSVVDVRPEFA GHAADMYLEGSQDQHRGWFMS SLMISTAMKGKAPYRQVLTHG FTVDGQGRKMSKSIGNTVSPQD VMNKLGAIDLRLWVASNDYTG EIAGSDENLKRACHYNACSSISL ARRRH
24452	54820	A	24590	362	517	TKSLISSMSSISSPPVVLICRNSS PEV**RKI*LGTELEFVIMVIAVS AWP
24453	54821	A	24591	250	930	
24454	54822	A	24592	1388	1912	VCPAAMTGFAAGSFPCTAVVTFP DITPLLWILMC*LAILMAESEP AISPTTISVVP*YAAESLLRVRI VPFSVTSPLPLILCVIAQLRSVE MVSRLPLITEASPRFFCSLTLSA LPVSMMLNCPTRKLLSPNSTSVL AVALTIPFPLMLLRSSPVTFVS NRPSWAIFPLPNP
24455	54823	B	24593	1	6018	
24456	54824	A	24594	510	1003	VALQADQKHKHERLPPPIPTM FQLAQPGVQLHAKPVYQVPV MMQATEPTGI*VRIPVLSISTNA PSITSIWPLFVRKISVLTLSVV AASHAASSPRQCAIRCKIWGRW AGSLRRDDGFGVRSRGSRYGA SVSISNFSAGINGKSSRSSPRRS SQTQPVMP

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24457	54825	A	24595	197	4314	RASTELSLRCCAPSLQ/ALLHFLYLACFTWMLLEGHLFLTVRNLKVNANYTSTGRFKKRFMPVPGYGIPAVIIAIVSAIVGPQNYGTFTHCWLKLDKGFWSFMGPVAVIILINLVFYFQVLWILRSKLSSLNKEVSTIQDTRVMTFKAISQLFILGCSWGLGFFMVVEVGKTIIGSIIAYSFTIINTLQGVLLFVVHCLLNRIQINSLLLTWTLWILRQRLSSVNAEVSTLKDTRLITFKAFQLFILGCSWVLGIF
24458	54826	A	24596	1409	1573	
24459	54827	A	24597	1283	1563	
24460	54828	A	24598	281	839	CVPTTDLVVQSQI*PRWRNWPRLCSCSHVSMKAASSPERTFTYCSGIYWLISGSGIGVSVPLLIISIGESVINLAVRPVIAHAIRVAITTRQTRVAVTVVVALPVFRAVEHHVFQHLTQTRTGFRWHQFFFNRRQREQSFTQGEQQRWANFQNGKVNNHQLAQLRLRLIIGRVRFENQRFVVFDHLA
24461	54829	B	24599	I	5652	
24462	54830	A	24600	559	1665	RVERKATIEMKSQRTTSDSWLII LAKQTGIIRAAKKGKKTIFLHDGPPYANGSIHIGHSVNKILKDII VKSKGLSGYDSPYVPQWDCGHLPIELKVEQEYGKPGKEFTAAEFRAKCREYAATQVDGQRKDFIRLGVLDGWSHPYLTMDFKTEANIIRALGKIIGNGHLHKGAKPVHWCVDCRSALAEAEVEYYDKTSPSIDV/AHPFMGFDVPAILGDHVTLDAGTGAVHTAPGHGPDDYVIGQKYGLETANVPVGPDGTYLPGTYPTLDGVNVFKANDIVVALLEQEKGALLHVEKMQHSYPCCWRHKTPIIFRATPQWFEVMSMDQKGCDIGFHASSNGKRRADDSDTNHVRRLCARQGRQPHPHQFQRT

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24463	54831	A	24601	1	1190	MTDFRESDTMSLFDKKHLVSP ADALPGRNTMPVATLHAVNG HSMTNVPDGMEIAIFAMGCFW GVERLFWQLPGVYSTAAGYTG GYTPNPTYREVCSGDTGHAEA VRIVYDPSVISYEQLLRKYRCV AVALLGYFKCKPILLNPSYKSM QDDLAFIARFIHKDLKFRRFSL KADQKSRIYERVLSIAGVNSWK DKQHQPRLVEHLLVCAESWVA PRALFDAIEYLAHQKIAIPAYL VAFLVLGPLVLSLIPSQLPSLT WSSITYSIVVIVEAGYQYHSRLR RFRGRVEVNEQIEYLIHNPIRTRA RAVNFVDNNNRLQAPRILRQDS WWITRPLPGLTWAIGSPGILPQ VVK SARVMKQAVAYLEPFIEA SKEQKKTNGKMVIATVKGDVH DIGKNIVGVVLQCNNYIEVDLG VMVPAEKILR*KLGGTPRTL*R SNRVPGPPEDRHSCFLGCV/YW FLVP*CLSSLRRCRR*RGQAS RIQ*LSSKLAISTIL/GLRRFGR VEVNEQIEYLIHNPIR/IAQGG QLC**QQSASGPTDITAGFMVD HQTFTGADVGDNRVARNPATG GQIGARHETGGGLPRTVY*SQQ RAGQNQRQDGRHREGRRPRH

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24464	54832	A	24602	1	1591	MGILVSPLLAPLIGLLDTMWN WRACYFLFLVLCAGVTFSMAR WMPETRPVDAPRTRLLTSYKTL FGNSGFNCYLLMLIGGLAGIAA FEACSGVLMGAVLGLSMTVSI LFILPIPAFFGAWFAGRPNKRF STLMWQSVICCLLAGLLMWIP DWFVGMNVWTLVPAALFFFG AGMLFPLATSGAMEPFPFLAGT AGALVGGIQQNIGSGVLASLSA MLPQTGGSLGLLMTLMGLLI VLCWLPLARGYRLSSWTSTTAS EDIDCEEGDGEGRNETHGLQLAV EPEGLQPNYMGRGKIRFRDTC LFCTQSRGSQWGFARTELVAL PPFLSGAADYRAGLALWLARG ADCDVDERHRADQSNLARSS GGFIALAAGAKSDRRRLRELNQS LQKELARNQHIAERLLEETESV RRDVARELHDDIGQTITAIRTO AGIVQRLAADNASVKQSGQLIE QLSLGVYDAVRRLGRLRPRQ LDDLTLAQAIRSLMREMELEGR GIVSHLEWQSMNQR*AKTSA* RCFVSARKG
24465	54833	A	24603	1	1752	
24466	54834	A	24604	1	699	
24467	54835	A	24605	965	5516	
24468	54836	A	24606	84	3760	
24469	54837	A	24607	27	278	

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24470	54838	A	24608	311	2529	REWGSTRRCERRISLSRNIAW RTIWRITRPCRCVFRFIATL LHLHLIMNDLPLEEYPCVRDLV PGRFLKFL/HRDPKGTTLVLASD LPGRIIPVDPRSIIIVMLFLAVRWL QRQLAGQELLETRATRLINGER GSNVLTGIYEWPPRTSSALDTL LREIQNAREQHSRLDLIRSYA AQDVKTGLNNRLFFDNQLATL LEDQEKVGTGHGIVMMIRLPDFN MLSDTWGHSQVEEQFFTLTNL LSTFMRYPGALLARYHRSDF AALLPHRTLKEAESIAVFRALS RLPDLWHRSIGTLTEALPQTDK RQEQIAVALTSYGLYGLGYGS KEIQLTYSGTAGDLISPLSAIH GRCILNTLVFIVKLRWMENTLH RFGTHHGCSAVRSSHLDGSPR RSSWHMARARNHIHVEENMA LLMEQAIANEGLFYRLLYLQRS LTAASSLDDMLMRFHWARDL GLAELLVVLPEAKAVGVSAMS MLGSDADWGVVLTFSRDASHY QQGQGTQLLHEIALMLPELLER WIERGWEEQQVWRYGFLRYVAF LTGWSAQNELKANPAKGVSAP KAPRHLPKNIDVDDMNRLDID INDPLAVRDLMYGAGRLSELV GLDIKHLDESGEVWVMGKGS KERRLPIGNAVA WIEHWLDL RDLFGSERERRQHAGTNVLQT ADQRASRARQGERLHRAAGR
24471	54839	A	24609	1	1749	
24472	54840	A	24610	1	2911	MNIDAKILNKILANRIQQHIKLL IHNNQVSFIPGMQGFNIHKS KVIQHINRTKDKNYMIISDAEK AFDKIQQPFMLKTLKLVAGM MAVAAPDDPPPSVSSSKPSTV APPGRISPSGRALCTSLPSALSSS SKFSLRLRFQVPAKLGVMVAVAA AAGVNAMLKRVAVAAASKPH VEIRQDGDQFYIKTSTTVRTTEI NFKVGEFEEETVDGRKCRVR PQSHYSVPVSLGAHGPLLLEE PVSPFAACGAPS
24473	54841	A	24611	249	609	QIEVCVRIKPKAGTVLAYS*RSR QERPPAPGMTSLSLAAVSSDNP VSGDEHILARASGRFIGRVA QPKRIQRRSSTPRAATDLGNPG HRPCTVRKSALLVVSVCRRHSS RSLRFRSC

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24474	54842	A	24612	942	1121	
24475	54843	A	24613	1010	1658	EISSKRSRTVCKRRAPMFVSVD FTCHAASAMRLIPESVNSIFTPS VAISALYCTVIEAFGSVRIRSKS LVVSACSSSTRIGDDLAVPGSGQ TVSQSGTRQKR*TECGQF*PSR VWWKRCNLLPAAAGHAERLH EKHPDRKTRRVRLVWLAGPPT RLLGTMGAGTLVLGACCLPWP REGAHNVATAACGGWRARCD LRFLRSCKLGLSRQFFGWNA
24476	54844	A	24614	1	1995	
24477	54845	A	24615	1	2853	
24478	54846	A	24616	1	1755	
24479	54847	A	24617	2942	3454	SVPDWLMCTAFSLSRINSRL LKAELLTSSIPVLLPSLLPRFQ VPSLFATVPVSAAPLIAPSV*L LKTTPADIIRPVTLPDLLNTPAFC TILLMVPVLFTELNSAPAFMVIC AVISPALLRIPPLTSTLFVITPAF LMTAPLSSFTKLLMMPLVFSR RPLDTVI
24480	54848	A	24618	1	2959	MKRYRPREILPWKVPVPGNYTPK IFKIKGTGHNPMASJENFDAHTP MMQQYLRKLAQHPEILLFYRM GDFYELFYDDAKRASQLLDISL TKRGASAGEPPMAGIPYHAVE NYLAKLVNQGESVAICEQIGDP ATSKGCCRSNGRNGGRKIVAVS LKKVSGAAKPCGHFRSTRYRV AYSTIINNKAGIWSAFEGVSAT RPNPTPRASPAVRTLSRGTPPEPR KISTDADNLAQGSCLKERLPAWL WGKKENSKWEVLD
24481	54849	A	24619	441	1425	
24482	54850	A	24620	1	2574	
24483	54851	B	24621	1	1725	
24484	54852	A	24622	160	390	
24485	54853	A	24623	892	1183	
24486	54854	A	24624	1	2493	
24487	54855	A	24625	435	829	ASDVLVSEGCYR/GASALTST SVICINTDKALRKIRLPLNGLR KPLNAMTLPGLITWPLCITTEKE DLISIDRLSTCIVKFSHPPEMS VRKFVPPAILLCSVCLRFSCPTR HQKAPAKWILKSCSAWMR
24488	54856	A	24626	763	1863	
24489	54857	A	24627	1423	1712	

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24490	54858	A	24628	1	2792	MTYLSAQDHELIQVVQNGHLQ MCGKSETGNEASPVKCIVLQVL RGLQYLHRNFIIHSQEQTIPDPSI SDQQETPLLAGDMAQRGRGG FYYVTAYIYVDKKAPVHMRTA AQGLITLCCQGFGLGYRLGG VMMEKMFAYQEPVNGLTFNW SGMWTFGAVMIAIIVLFMIFF RESDNEITAIVMEDSMSSATT LTPPEQVDSLIMQIAEENGLE VLDQLSQLPEGASAVGESSVRS QEDQLSRSFICLMAMM
24491	54859	C	24629	213	345	
24492	54860	A	24630	1	474	MHQTTAKTPHTSYPNNYEEHN RRANRSKNYDRIRHTIILKRTN PAQTITNLLKSFRNRYNYVQPR SCRSIFIHIPGERDLNLCAIPNPP AIFPISIGYLGPDNLNLPYAPFI TINLTGPAPTTTHPVGNLGTTG NPEPGGCGILIVWCCVNWACL WDSVVAAPREPYMPAGLLRHR RHYRHRREDLIAPPAARQTDE NRRPALCHEYAVGHRKIKTNV EHTEPYILPLITHSQPLNRGAFF CPGVRFVVSVDLFEKRL**RR WRRSPAGI*GSRGAATTLQRQ AQLTQHQTIRIPPPGSGLPVVP KFPTGCVVVGAGPVRFFVING
24493	54861	A	24631	1	924	
24494	54862	B	24632	177	468	
24495	54863	B	24633	592	883	

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24496	54864	A	24634	1	1926	MATAKANQEIQEWLGKYGTAR VKLNVDKDFSLKDSSLEMLYPI YDTPTNMLFTQGAIRHTDDRTQ SNIGFGWRHFSGNDWMAAVIT FIDHDLRSRSHTRIGVGAEYWRD YKLKSANGYIRASGWKKSPODIE DYQERPANGWDIRAEGYLPAP PQLGASL.MYEQYYGDEVGLFG KDKRQKDPHAISAHSPEFRSE ALKLVNASVLLPQPVNSACMN HNSSTGAVNSKISRLLNVNW RCLPRLHVSNSASWQNGMKS WL SSKRPRHTSEAPEMKYVFIEKH QAEFSIKAMCRVLRVARSGWY TWCQRRTRINIAVVRADGSRT SFVYTSYLAKVNEEWKNNVGT GSTVKWPIGLGGKNDGIAAF VQRLPGAIGYVEYAYAKQNNL AYTKLISA*NEVCLY*KTSG*V QHQS NVPR/RSQWPAAAGIRGV SGGQG*TL*YAAQMAPELPSS TPATWRK*TKSGKTLV/HGST VKWPIGLGGKNDGIAAFVQR LPGAIGYVEYAYAKQNNLAYT KLISADGKPVSPTEENFANAAK GADWSKTFAQDLTNQKGEDA WPITSTTFILIHDKQKPEQGTE VLKFFDWAYKTGAKQANDLD YASLPDSVVEQVRAAWKTNK DSSVNFDMANVFFRVTPGNFL VNREASHQRRVFAVRAGVDFI YRASSDGLRRRCRRRTFRKRIN
24497	54865	A	24635	1387	1639	ESKPLNLGRSGFLLTRALSAQ PLWQSPDQHLTPQAGLRSRL*A QRQA*QKTASRVV*PKPLWAL VKATSEDISVVL*ESACQC
24498	54866	A	24636	1570	2516	IEVAMSI VVKNNIHVVGQDWW EVRDFHGTGYEYKTLRGSSYSYF IREEKNVLIDTVDHKFSREFVQ NLRNEIDLADIDYIVINHAEDH AGALTEMAQIPDTPYCTANAI DSINGHHHPPEWNNVVKTDG TLDIGNGKQLIFVETPMLHWP SMMTYLTGDAVLFN YDAFGQH YCDHLFNDEVDQTELF EQCQ RYYANILTPFSRLVTPKITEILGF NLPVDMIA TSHGVVWRDNPQT IVELYLKWAAQYQDRITIFYD TMVNNTPMMAAIAQGIA/ETG PRLAGENFNVARNDKHEDPDL LSFRSERGA

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24499	54867	A	24637	24	363	
24500	54868	A	24638	2	366	RATPRHIIVRFTKVEMKEKMLR AAREKGRVTLKGKPIRLTADLS AETLQARREW*QNLSAFACL*R ILFLLHL*SLVWLDMKCWVENS FL*EC*ILAPTLFWLVGFLPRDP LLV*WASL*G*PDLSLWLPLAF FPSQLW*I*QLCVLELL
24501	54869	A	24639	232	292	
24502	54870	A	24640	4	911	
24503	54871	A	24641	2795	3226	SWWISFLMCCWIWFASILLRIFA SMFIKDIGLKFPFLVVS LPGFGI RMMLAS*NELGRIPFSIGWNSF RRNGTSSSLYLW*NSAVNPSGP GLFLVGKLLVIASISEPVIGLFTD STSSWFS LGRVYVSRNLSISSRF SSLFA
24504	54872	A	24642	1	3285	
24505	54873	A	24643	1	4368	
24506	54874	A	24644	200	335	YALLNKDSSPWYPFSVPVLASN TRYLWPLSST**GSLSVWLSPD V
24507	54875	A	24645	174	263	
24508	54876	A	24646	1244	1354	

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24509	54877	A	24647	194	2481	GMFRMNLMEPLTQCINAGHEM TKAIAIAQFNDDSPARKITRR WRIGEAADLVGVSSQAIRDAEK AGRLPHPDMEIRGRVEQRVGY TIEQINHMRDVFGLRLRAEDV FPPVIGVAAHKGGVYKTSVSVH LAQDLALKGLRVLLVEGNPDQ GTASMYHGWVPLDHIHAEDTL LPFYLGEKDDVTYAIPKTCWPG LDIIPSCALHRIETELMGKFDE GKLPTDPLMLRLAIETVAHDY DVIVDSAPNLGIGTINVCAA DVLIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEFDPVIRLL TKYSNSNGSQSPWMEEQIRDA WGSVMVKNVVRVETNEVGKAA PMVDSLIARVGMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWVSGNERDQELLTEDALDDLI PSFLLTGQQTAFGRRVSGVIEI ADGSRRRKAAALTESDYRVLV GELDDQEMAALSRLLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFSPHGELSARSGDALQ KAFTDKEELLKQASNLHEQK KAGVIFEAEVITLLTSVLKTSS ASRTSLSSRHQFAPGATVLYKG DKMVLNLDSPQSFSPGAGDHA NSPQSSSPSTGVHINSPLSSLS AGVHTISPOSSNPSVGVLTALSHP DLVWVFTLTAHSRPLVWVFT
24510	54878	A	24648	1361	1694	
24511	54879	A	24649	1	3852	MKLMETLNHCINAGHEMTKAV AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRLRAEDVFPVVI GVAHKGGVYKTSVSVHRAQ DLALKGLRVLLVEGNAPQGT SVYHGWVPLDHIHAEAAALLP YLGEKDDVTYAIPKTCWPLDI IPSCALPRIPELMGK/FDEGRS FMPGPP/HHHPLGRSSQ*QVSNS LDRAAKGN*KPLCHC

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24512	54880	A	24650	1	1720	MEKLLLENDLSKDVSRLETVF VPPEKHEKEIALKSNIVELKKQ LSELKKKCGEDQEKIHALTSEN TNLKKMMSNQYVPVKTHEEV KMTLNDTLAKTNRELLDVKKK FEDINQEFVKIKDKNEILKRNLE NTQNQIKAEYISLAEHEAKMSS LSQSMRKVQDSNAEILANYRK GQEEIVTLHAEIKAQKKELDTIQ ECIKIMKRAPVIPKHTLNTQPV DTSLSTPAAPMVDSLIARVGV MARGNATLTPVCGRDVKFTLE VLRGDSVEKTSRVVWSGNERDQ EQLTEDALDDLPSFLLTGQQT PAFGRRVSGVIEIADGSRRRK AAALTESDYRVIVGELDDEQMA ALSRLGNDYRPTSAYERGQRY ATRPQNEFAGNISAMADAENIS RKIIITRCINTAKLPKSVVALF SHPGELSARSVIDSAPNLGIGT INVVCAADVLIPTPAELFDYTS ALQFFDMLRDLKKNVDLKG FEPDVRILLTKYTNINASQSP WMREKFGMAWESMVLKNV VRETDEVGKGQIRMRADFV QAIQSRSTGAWRNALSIWEP VCNEIFDRLIKPRSEIT
24513	54881	A	24651	1094	2271	APFHRPHTKQSLQEQT DVVSIN EFLKQMAF* AQKLKE/WRTSAA SDIT PAGFCS CRAIKDAEKP GRLPHPD/MEFRDRV DQ/RVVSFPGQ IIVH MRNVFGPRLPRAKDV FPPVIGVAAHKG GVYKTSVSVHLAQ DL ALKGLRVLLVEGN DPQGTASMVSRE GDPALHIYQEAPFL PFYLGEKDDV TYAIKPTCCPGLN IIPSCALPRIET ELMGKFDEGKL PTDPHMLRL LAIETVAHAHDY DVIVIDSAPNL GIGTINVVCAAD VLIVLTPVEM FDYTSARQFFD MLRDLKNA DLKGFEPEVRIL LTKYSNSNGS QFP/WMEEQIRD AWGSMVLKNV VRETGVEVGKG IQIRMRTVFE QAIQSRSTDTSL STPAAPMVDS LIARVGVMA SR
24514	54882	A	24652	1	1415	

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24515	54883	A	24653	3008	8165	ILIPFFIGLQNRFTQFRLSETKEIT NPYAMRLYESLFQSSKTNGSGI VSLKIDWIIERYQLPQSYQRMF DFRRRLQVCVNEINSRTPMRL SYIEKKKGRQTTHIAIRDAEKA GRLPHPDMEIRGRVEQRVGYTI EQINHMRDVFGLRLRAEDVFP PVIGVAAHKGGVYKTSVSVHL AQDLALKGLRVLLVEGNDPQG TASMYHEWVQNLHIHAEDTLL PFYLGKKDDVTYAIPKTCWPGFL DIIPSCALHRI
24516	54884	A	24654	1	848	
24517	54885	A	24655	2354	3640	NVICNQELVYSSRHQFAPGATV LYKGDKMVLNLDNRVRPTEYR YGVFLNVLLPATKYFQLHDP RNMELNYSLASEDI.VLKGLRV LLVEGNDPQGTASMYHGWWP DLHIHAEDTLLPFYLGKDDVT YAIPKTCWPGFLDIIPSCALHRI ETHLMGKFDEGKLPTDPLML RLAIETVAHDYDVIVIDSAPNL GIGTINVVCAADVLIPTPVE/L FDYASARQFFHMLRPLLKNVD LKGFEPDVRILLTKYSNSNGSQ SPWMEEQIRDAWGSMLKKNV KEFAGNISALADAENISRKIITR CINTAKLPKSVVFFLTPVNYL PGDALQKAFDTKEELLKQQAS NLHEQKKAGVIFEAEEVITLLTS VLKTSSASRTSLSSRHQFAPGA TVLYKGDKMVLNLDNRVRPTE CIEKIEAILKELEKPA
24518	54886	A	24656	667	870	QIVSSEPKYTDFLSKIPFEQVR DVQRNGDHTEGAVR*LSIAFFS ALLKLLAFFTEEVRAAAVVRFV
24519	54887	B	24657	1	1086	
24520	54888	A	24658	2	250	WRTKSLDIPPLIYPNGIVKNILR HLSQLLNVPIRPFPSWILRFP*RP *RKISTSFIRPLFTFLPA**MLIRS SVWQ*KTVSW

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24521	54889	A	24659	1	1608	MAETA VINIHKRKNSPRIVQSN DLTEAA YSLSRDQKRMLYLFV DQIRKSDGTLTYMYTRKPDGS GIVSLKIDWIERYQLPQSYQRM PDFRRRFLQCINAGHEMTKAIAI AQFNDDSPARKITRRWRIGEA ADLLGVSSQAIRDAEKAGPLPH PDMENRRGRVEQRGGYTIEPNN HMRDGVGTRWRRADVFPLI GIVAGHKGGRYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT SMYHGWVVDLHIHAEDTLPLF YLGEKDDVTYA IKPTCWPLDLI IPSCALHRIETELMGKFDEGKL PTDPHLMRLAIETVAHDYDVI VIDSAPNLGIGTINVVCAADVLI VPTPAELFDYTSALQFFDMLPD LVKNRDLKGVPEPDMRKQRHR KAKDLLAQDPTAMTTDELLKE ATRCPICTAYLEKPMSECECV FCLSCTNSLQKEPQGGVLC PF CLEASQKNNIRLNRLGLRVSH IKELEPKLKKILKMNFKDAEVP RFSSPKPCSSFFSTCYLSKNC SN HPCYSPYPGSGWG
24522	54890	A	24660	1	1128	
24523	54891	A	24661	1035	1208	SLIDRIEALGIFRAAV*GSAAY HGV*YERRRTFLCMLFGYFLSR RLESLLLPEVQS
24524	54892	A	24662	1	1316	MEIRGRVEQRVGYTIEQINHMR DVFGTRLRRAEDVFPPVIGVAA HKGGVYKTSVSVHLAQDLALK GLRVLLVEGNDPQGTASMYHG WVPDLHIHAEDTLPPFYLGEKD DVTYA IKPTCWPLDIIPSCAL HRIETELMGKFDEGKLPTDPHL MLRLAIETVAHDYDVIVIDSAP NLGIGTINVALQNFQRYTGQH VHRIGMAERMWCDNRERHT VSSSGGNRLPNPGPDRSDLALK GLRVLLVEGNDPQGTASMYHG WVPDLHIHAEDTLPPFYLGEKD DVTYA IKPTCWPLDIIPSCAL HRIETELMGKFDEGKLPTDPHL MLRLAIETVAHDYDVIVIDSAP NLVFRICFVIWAQERIDIKGFEP DVRILLTKYSNSNGSQSPWMEE QIRHAWGSMVLKN/VVRETDE VGKDTGVRKSIWCHRN SRWE

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24525	54893	A	24663	504	1254	SYVKYFPHPQAQKYFQQIHSAI GLHNADHVHKLGLGDNRYPIW IMQPSAHHPARQPEHDIAFGKC SSSVSVHLAQDLALKGLRVLLV EGNDPQGTASMYHGWWPDLHI HAEDTLLPFYDPLMLRLAIET VAHDYDVVIDSAPNLGIGTINV VCAADVLIVPTPAELFDYTSAL QFFDMLRDLKKNVDLKGFEFD VRILVVRVSQRMVVAGCIIAFID KLLNVLICFPFSVKNRFVIFHSV DFECVIRF
24526	54894	A	24664	1	3216	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGRRLRAEDVFPFG FGDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLPNTQTASPRALA DSLMLQARQVSRL/VKRAPTC WPGLDIIPSCIALPRIETELMGK FDEGKLPTDPLMLRLAIETVA HDYDVVIDSAPNLG
24527	54895	A	24665	1	419	MSSSDKDQDFSVANVMVNFAP VFPMGKYYYTQADKVLPLAIQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE/ VGCCR*KRL*IFSLVYQCAQSI QRALQCTYQPISSHLLYRVTEP VYAVSA
24528	54896	A	24666	1	2598	

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24529	54897	A	24667	1	2027	MRGHREKAAACKPRTRASEGT TPASTFILDFQPPNCNYTSGDNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSACKRDA ELANGALGHELNNDYTLKKVM KPLITSNTVTDEIERANVFKMN GKWLFTDSRGSMTIDGINSN DIYMLGYVSNSLTGPYKPLNKT GLVLQMGDPNDVFTYSHFA VPQAKGILCEEDNYTAGDNHM MRAPHCEEDRAHKFVVFDA GTESGHQGEESLFNRACGGGGT FFFSKESQKLQQSACKRDCINA GHEMTKAIAIAQFNDDSPARK ITRRWRIGEADLVGVSSQAIR DAEKAGRLPHPDMEIRGRVEQ RVGYTIEQINHM RDVFGTRLKR AEDVFPFVIGVAAHKGGVYKT SVSVHLAQDLALKGSLLPKND FLFKLGLEGLPLGKIHSPTGA DVARGSSGLPKSELFLPERNTQ ELQQDSEEGPLALQVLQSNLM DFADFGTTIKQDFRLLGQTSVD RLLQLSQQGA VKGNQLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQNNNDGIC EIHVAKYVEIFGLTSAEASKDIR QALKSFAGKLVVFYRPE/VGCR R*KRL*IFSLVYQTCAQSIQAL QCTYQPIHSLLYRVTEPVYAV
24530	54898	A	24668	1	989	PWISAPVPVDVVEGAMDSVTV LSFGGLMLYFCAGWPPARRWC FPESISCGSMERDQWWGLQVA KRAGLAGGQSGRTVLRRERVIE IASTHIALAARHSDWRCCRNGR YPARGPAALQNFQRYTGIQHV HRIGMAERMWCDNRNRERTVS SSGGNRLPNPGPDRSCDNLKTC HTSHGSVMAETA VINHKRRKN SPRIVQSNDLTEAAYLSRDQK RMLYLFVDQIRKSDGTLQEH GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPE/V GCRR*KRL*IFSLVYQTCAQSIQ RALQCTYQPIHSLLYRVTEPV

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24531	54899	A	24669	350	1203	LLTARLTWVSARLMSDFADFG TTIKQDFRLLQGQTSVDRLLQLS QGQAVKGNQLLPVSLVKRKT LAPNTQTASPRALADSLMQLA RQD/LALKGLRVLLVEGNDPQG TASMYHGWWPDLHHAEDTLL PFYLGKDDVTYAIKPTCWPL DIIPSCALHRIETELMGKFDEG KLPTDPHMLRLAIETVAHDYD VIVIDSAPNLGIGTINVVCAADV LIVPTPAELFDYTSALQFFDMLR DLLKNVDLKGFEVDVRIILTKY SNSNGSQSPWMEEQIRDAEGSR
24532	54900	A	24670	1	936	
24533	54901	A	24671	1070	1324	LGTPGGCSRMTALVPLINDD TPTRRTRLPLGGQVFSVRS*TV ADQSTSGDGDSTCNVRGSCPCR IAITILITPATPAAACV
24534	54902	A	24672	1	1212	
24535	54903	A	24673	2373	3381	FKRGQYQGLLRPRFHGQILYA RRQGADAAGDSGIW/HGIWTEP MTM*KKDER*PSPQTAS*DNW KSIRGSCWQALSITRN/CKNSPRI VQSNDLTEAAYSLSRDQKRML YLFVDQIRKSDGTLQEHGDGICEI HVAKYAEIFGLTSAEASKDIRQ ALKSFAGKEVVFYRPEEDAGD EKGYESFPWFIKRAHSPSRGLY SVHINPYLIPFFIGLQNRFTQFRL SETKEITNPYAMRLYESLCQYR KPDGSGIVSLKIDWIERYQLPQ SYQRMPPDFRRRLQHIFVLRLER PETVLIDLIRTKDAVRELDNL QYRKMKKLLFQEAHNGPAVEA QEEEEED
24536	54904	A	24674	31	811	RRGLLGTRLRLEDVFPPLVGV AAHKGGVDKTSVSVHLAQDLA LKGLRVLLVEGNDPQGTASMY HGWVPELHHAEDTLLPFYLG KDDVTYAIKPTCWPLDIIPSC ALHRIETELMGKFDEGLPTDP HMLRLAIETVAHDYDVIVIDS APNLGIGTINVVCAADVIVPTP AELFDYTSALQFFDMLRDLK VDLKGFEVDVRIILTKYSNSNG SQSPWMEEQIRDAWG/SMVLK NVVAFQNLFLFILLRIWL
24537	54905	A	24675	1004	1105	

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24538	54906	A	24676	1	1139	MEKKITGYTTVDISQWHRKEHF EAFQSV AQCTYNQTVQLDIKK KLKTVKKNKHKFYPAFIHILAR LMNAHPEFRMAMKDVAEYNG YHVVFALAGSPKDADDTSIYM FYQKVGDN SIDS WKNAGR VFK DSDKFDANDPILKDQTQEWSGS ATFTSDGKIRLFYTDYSGKHYG KQSLTTAQVNVSKSDDTLKING VEDHKTIFDGGDKTYQNVQQFI DEGNYTSGDNHTLRDPHYVED KGHKYLVFEANTGTENG YQGE ESLFNKAYYGGGTASSIRKSDG TLQEH DGICEIHVAKYAEIFGLT SAEASKDIRQALKSFAGKEVVF YRPE/VGCRR*KRL*IFSLVYQT CAQSIQRALQCTYQPISSHLLYR VTEPVYA VSA
24539	54907	A	24677	1	930	
24540	54908	A	24678	1	2486	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQNEKY QVPQFDQSTIKNIESAKGLDVW DKWPLANADGTVAEYNGYNNV VDKFDANDPILKDQTQEWSGS ATFTCDGKIRLFYTDYSGKHYG KQSLTTAQVNVLSDDTLKING VEDHKAIFDGGDKTYQNVQQ IDEGNYTSGDNHTLRDPHYVED KGHKYLVFEANTGTENG YQGE ESLFNKAYYGGGTNFRKESQK LQQS AKKRDAELANGALGIIEL NNDYTLKKVMKPLITSNTVTDE IERANVFKMNGK WYLF TDSRG SKMTIDGINSNDIYMLGYVSNS LTGPYKPLNKTGLVLQMG LDP NDVTFTYSHFAVPQAKGNV V ITSYMTNRGFFEDKKA TFAPSF LMNIKGNKTSVVKNSILEQQQL TWLQVAKRAGLGGGQSGRTVL RERLPNYKNFKGTIQLGQNQY AVSGEIFVVD RNTVEITELPVRT WTQVYKEQVLEPMLNGTDKTP ALISDYKEYHTDITVKFVVKM TEEKLAQAEAAGLHKVFKLQT TLTCNSMVLFDHMGCLKKYET VQDILKEFFDLRLSY YGLRKEW LVGMLGAESTKLNNQARFILEK IQGKITIENRSKDLIQLVQRG YESDPVKA WKEAQEKCDNLKT CHTSHGVSMAETA VINHKRRK

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24541	54909	A	24679	5	253	SAPKVVWRGLRQQGAGISVLP*V CAQP/VQVAKAPELILNFDLPK KYFDKL/R/DTHFFSPHTGKFPF VKILMAPFANSASRGVALC
24542	54910	A	24680	334	842	PDKEGNEJWVDMYTVKPSGWT VRTFDKPRKRFAFFIAGILFRAI KNHFLPRETLQCLPYILTGFRRG QSEYFISFNMDLADTVMLVVG GHKIFVFHCHTELMSIHQAGK NVNKGRIKLVILFYGL*/QR* YPAERSGYRYIEQLTEMPQNVL YDAIGYQRWYIQ
24543	54911	A	24681	676	1169	DNLKTCHTSHGVSMAETAVIN HKRKRKNSPRIVQSNLDEAAYS LSRDQKRMLYLFVDQIRKSDGT LQEHGICEIHVAKYAEIFGLTS AEASKDIRQALKSFAGKEVVFY RPE/VGCRR*KRL*IFSLVYQTC AQSIQALQCTYQPIHSLLYRV TEPVYAVSA
24544	54912	A	24682	1	783	
24545	54913	A	24683	1	1884	
24546	54914	A	24684	1	1131	
24547	54915	A	24685	1	2856	
24548	54916	A	24686	528	725	
24549	54917	A	24687	1	898	
24550	54918	A	24688	1879	2343	
24551	54919	A	24689	1	1254	
24552	54920	A	24690	1	1113	
24553	54921	B	24691	1	1156	
24554	54922	B	24692	1	1980	
24555	54923	B	24693	1	1932	
24556	54924	A	24694	1	663	
24557	54925	A	24695	1123	1764	
24558	54926	A	24696	2	1772	
24559	54927	A	24697	1	1040	MELKTKARELREECRLSRRCN QLEERVSAEMEENEMKREG KFREKRIKRNEQLQEIWDYVK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLRQANVQIQE IQRTPRQYSSGRETPRHIVRFT KVEMKEKMLRAAEKCDNLK TCHTSHGVSMAETA VINHKKR KNSPRIVQSNLDEAAYSLSRD QKRMLYLFDQIRKSDGTLQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE EDAGDEKSYEQPSKDIRQALKS FAGKEVVFYRPE/VGCRR*KRL *IFSLVYQTCASIQRALQCTYQ PIHSLLYRVTEPVYAVSA

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24560	54928	A	24698	1683	4289	RVFKDSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVSKSDDT LKINGVEDHKTFDGDGKTYQN VQQFIDEGNYTSGDNHTLRDPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFR KESQKLQSQAKKRDAELANGA LGIIELNNDYTLKKVMKPLITSN TVTDEIERANVFKMNGKWHK ILVSGTHRARTEVEVTDPIHQ RMGCCFTVGAGEICEKPTGCF TPLPNCNCQWTSAILDRRSHS IHPSPASGSWVKVVTGSYQLT HSPGIGLRDFADFGTPHQTFSP AGANQRGPLVATLSGPGGEGQ SAVARLTGEKKNHPGAQYANR LSPRVGRFINAAGTTGPTGKR AVSATQLMHFKILVSRARHART ELEVTDPGSSAENGLFPVLL LRKARKTLMPPHSTCFIKRSAP TQSTAGKTRPRVLKDSDKFDA NDPILKDQTQEWSGSAPFTSDG KIRLFYTDYSGKHYGKQSLTTA QVNVSKSDDTLKINGVEDHKTI FDGDGKTYQNVQQFIDEGNYT SGDNHTLRDPHYVEDKGHKYL VFEANTGTENG YQGEESLFNKS VLRRRHLLPDFADFGPTIKQD FRLLQGTSVDRLLQLSQGQAV KGNQLLPVSLVKRKTTLAPNTQ TASPRALADSLMQLARQVSRLE
24561	54929	B	24699	1	2034	
24562	54930	A	24700	1	1038	
24563	54931	A	24701	1	1149	
24564	54932	A	24702	2	823	WPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGRVPKDSKDF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKHYGKQSLT TAQCDNLKTCHTSHGVSMAET AVINHKKRKNSPRIVQSNDLTE AAYSLSRDQKRMPLYFVDQIR KSDGTLQEHGIGICEIHVAKYAE IFGLTSAEASKDIRQALKSFAGK EVVIFYRPEEDAGDEK/ML*IFSL VYQTCAQSIQRALQCTYQPIH SLLYRVTEPGYAVSA
24565	54933	B	24703	1	1206	
24566	54934	A	24704	2	1037	
24567	54935	B	24705	1	1389	

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24568	54936	A	24706	1	602	MGTDGDFICISMTGGAPWGFRI.Q GGKEQKQPLQVAKWANLKP PSHGSVMAETAVINHKRRKNSP RIVQSNDLTEAA YSLSRDQKRM LYLFVDQIRKSDGTLQEHGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPE/VGCR R*KRL*IFSLVYQTCASIQRAL QCTYQPISHLL YRVTEPVYAV
24569	54937	A	24707	1	774	
24570	54938	A	24708	1479	1947	
24571	54939	A	24709	1	696	
24572	54940	A	24710	1	1773	
24573	54941	A	24711	1	1509	
24574	54942	A	24712	1	891	
24575	54943	A	24713	156	242	VAGRGIGYRLSPNKGL*TW SALCKPIAE
24576	54944	A	24714	1441	1866	
24577	54945	A	24715	1	1098	
24578	54946	A	24716	1	1989	
24579	54947	B	24717	126	848	
24580	54948	B	24718	58	688	
24581	54949	A	24719	1	542	
24582	54950	A	24720	1	675	
24583	54951	A	24721	1	1209	MKMPKHDLLAAILAAKEQGI GAILAFAMAYLRGRYNGVLEA RSLKSRCQSHALAEGRGGPP VTGRFKSTFTADSWNRYSLPSL TGGGNILHSRTHRTVSRLG RWQELLRDVFGTRLRAEDVF PPVIGVAAHKGGVYKTSVSVH LAQDLALKGLRVLLVEGNDPQ GTASMYHGVVWPDLLHHAEDTL LPFYLGEKDDVTYAIKPTCWPA LDIIPSCALHRIETELMGKFDE GKLPDTPHMLRLAIETVAHDY DVIVIDSAPNLGIGTINVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFEPPDVRI LLT/KYSNSNGSQSPWMEQIRDA WGSMLKNN/VRETDEIGKGGIR MRTVFETAMDKRLLTGAWEK AFFFLEPGFEESNR

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24584	54952	A	24722	1	743	MIGMELPGLEGTELEGCHEREV VYDRVRVFEKRGAEARHVEARS PGGSGSEKRGWGGARHQRMCR KGADNGGAGRARRVARLRQL ASRAIGRRKGAVLYQTPVINHK KKRKNSPRIVQSNDLTEAAYSLS RDQKRMLYLFVDQIRKSDGTL QEHDGICEIHVAKYAEIFGLTL WREASKDIRQALKSFAGKEVV FYRPE/VGCRR*KRL*IFSLVYQ TCAQSIQRALQCTYQPISHSLLY RVTEPVYAVSA
24585	54953	A	24723	1157	1471	
24586	54954	A	24724	1	824	MEENERDLEINMINMSKELKVE NIKKHIGMLEKDEIEIIVTKSILI EIEIPTQCLRNLTLLHLAASAGN HMSNTACWYGCEDFTSVSTFA HQGVGSWDAYPEAASLLSCD NLKTCHTSHGSMVAETA VINH KKRKNSPRIVQSNDLTEAAYSLS SRDQKRMLYLFVDQIRKSDGTL QEHDGICEIHVANYAEIYGLTS AEASKDIRQALKSFAGKEVVYF RPE/VGCRR*KRL*IFSLVYQTC AQSIQRALQCTYQPISHSLLYRV TEPVYAVSA
24587	54955	A	24725	996	1169	SLIDRIEALGIFRFAAV*GSAAY HGV*YERRRTFLCMLFGYFLSR RLESLLLPEVQS

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24588	54956	A	24726	3	1743	DSPEARKITRRWRIGEAADLV GVSSQAIRDAEKAGRLPHPDME IRGRVEQRVGYTIEQINMRDV FGTRLRRAEDVFPPIGVAAHK GNDPQGTASMYHGWWPDLHIH AEDTLLPFYLGKDDVTYAIKP TCWPGLDIIPSCALHRIETELM GKFDEAQPNLIGITINVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFEVDVRIILLT KYSNSNGSQSPWMEEQIRDAW GSMVLKNVVRETDEVGKGQIR MRTVFEQAIDQRSSTDTLSLSTP AAPMVDSLIRVGV MARGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGNERDQELLTEDAL DDLIPSFLLTGQQTAPFGRVSG VIEIADGSRRRKAAALTESDYR VLVGLDDEQMAALSRLGNDY RPTSAVERGQRYASRLQNEFAG KYFLRWLMRKIFHIITRCINTAK LPKSVVALFSPHGELSARSGDA LQKAFTDKELLKQASNLHE QKKAGVIFEAEVITLLTSVLKT SSASRTLSRRHQFAPGATVLY KGDKMVLNLD RSRVPTECIEKI EAILKELEKPAP
24589	54957	A	24727	1	1623	
24590	54958	A	24728	1	1863	
24591	54959	A	24729	1	2622	
24592	54960	A	24730	1	1338	

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24593	54961	A	24731	1	1823	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDSWKNAGR VFKDSD KFDANDPILKDQTQEWGSA TSDGKIRLFYTDYSGKHYGKQS LTTAQVNVKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYL VFEANTGTENG YQGEESLF NKAYYGGGTNFFRKESQKLQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVFIRDKL MERRNRRTRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHKSISSTEYTK VFALDVAARHRCNLTCTHTS HGSVMAETAVINHKKRKNPRI VQSNDLTEAAYSLSRDQKRML YLFVDQIRKSDGTLQEHGICEI HVAKYAEIFGLTSAEASKDIRQ ALKSFAGKEVVFYRPE/VGCR R *KRL*IFSLVYQTCAQSIQ RALQ CTYQPISSHLLYRVTEPVYAVS
24594	54962	A	24732	1476	2221	

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24595	54963	A	24733	1	815	MRVGRKAVGAIWWSSKQELFQ QLFLRTELEDIGPGIVKRELGRE GSKDTGSSDDWEQLPDWKT VGNERDQELLIEDALDDLPSFL LTGQQTPAFGRRVSGVIEIADG SRRRKAALTESDYRVLVGEL DDEQMAALSRLGNDYRPTSAY ERGQRYASRLQNEFAGNISALA DAENISRKIIITRCINTAKLPKSV VALFSPGELSARSGDALQKAF TDKEELLKQQASNLHEQKKAG VIFEAEVITLLTSVLKTVQSKN LSHFTWICHAEAVINHKKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEH D GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKHVVTISP QTSAYERGQRYASRCKNEFAG NISALADAENISRKIIITRCINTAK LPKSVVALFSPGELSARSGDA LQKAFDKEELLKQQASNLHE QKKAGVIFEAEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMVLNLDNRVPTCECKRK LRPF*SGQRTDTAYVFDPRDGY

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24596	54964	A	24734	2	1249	DFADFGTTIKQDFRLLGQTSVD RLQLSQGQAVKGNQLLPVSL VKRKTTLPNTQTASPRALADS LMQLARQVSRLESGQLAISGRI LFLPMLNSINKLAAPSQCTEPF FRRDPTLHPKSEVRLPPKVTIT VISNPILITPQEKSVACQTYNQT VQLDITAFKKTVKKNKHKFYPA FIHILARLMNAHPFRMAMKD GELVIWDSVHPCYTVFHEQTET FSSLWSEYHDDFRQFLHIYSQD VACYGENLAYFPKGFENMFFV SANPWVSFTSFDLNVANMDNF FAPVFTMGKYYTQGDVKVLMPL AIQIRKSDGTLQEHDGICEIHVA KYAEIFGLTSAEASKDIRQALKS FAGKEVVFYRPEEDAGDEKGY ESFPWFIKRAHSPSRGLYSVHIN PYLIPFFIGLQNRFTQRLSETKE ITNPYAMRLYESLCQYRKPDGS GIVSLPIDWIIERYQLPQSYQRM PDFRRRLQVCVNEINSRTPMR LSYIEKKKGRQTTIIRISDGL QEHDGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDERGYESFPWFIKRAH SPSRGLYSVHINPYLIPFFIGLQN RFTQRLSETKEITNPYAMRLY ESLCQYHLCGTLRNSRFCEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPE/VGCRK*K RL*IFSLVYQTCASIQIRALQCT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
24597	54965	A	24735	1	2286	MLTLILLDLQFMAQLAGYQMS FNSTKSKQTKNFVAVGYRTGD FQLHTNVNDGAEEFGSSVYQKV CEELDALINLAWTSSTSTRFG LAAKFQLKPIAFISTKVNHWLT GVSYPPLLEAGVKLNLSALCDN LKTCHTSHGSVMAETA VINHK KRKNSPRIVQSNDLTEAAYSLS RDQKRMLYLFVDQIRKSDGTL QEHGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDEKGYESFPWFIKRAH SPSRGLYSVHINPYLIPFFIGLQN RFTQFRLSETKEITNPNYAMRLY EIPVVSIRKPGMGSGIVSLKIDW IIFERYQLPQSYQRMPDFRRRLQ CINAGHEMTKAIAIAQFNDDSP EARKITRRWRIGEAADLLGVSS QAIRDAEKAGPLPHPD MENRG RVEQRGGYTIEPNNHMRDGVG TRWRAEDVPPLIGIVAGHKG GRVYKTSVSHLAQDLALKGLR VLLVEGNDPQGTASMYHGWV PDLHIHAEDTLFPYLGEKDDV TYAIKPTCWPGLDIIPSCALHR IETELMGKFDEGKLPTDPLML RLAIETVAHDYDVIVIDSAPNL GIGTINVCAADVLIVPTPAELF DYTSALQFFDMLPDLVKNRDL KGVEPDVFIRDKLMERRNRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFVSPVTPHTF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
24598	54966	A	24736	1	1400	MDAKMHSGGTAPPGTLSQRQP SSNSKNTNGSKLNPLKDTLLSTPS CPEGELVNAARRSNGSGNAITL PVWGRDVKFTLEVLRGDSVEK TSRVWSGNERDQELLTEDALD DLIPSFLLTGQQTPAFGRRVSGV IEIADGSRRRKAAALTESDYRV LVGELDDQEQAALSR LGNDYR PTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKELLKQQAASNLHE QKKAGCDNLKTCHTSHGVSMA ETAVINHKKRKNSPRIVQSNL TEAAAYSLSRDQKRMLYLFVDQI RKSDGTQLQEHDGICEIHVAKYA EIFGLTSAEASKDIRQALKSFAG KEVVFYRPEEDAGDEKSYEQPS KDIRQALKSFAGKEVVFYRPE/ VGCRR*KRL*IFSLVYQCAQSI QRALQCTYQPISHSLLYRVTEP
24599	54967	A	24737	1	1628	MLHITNDQGNASQNHAMPPY SCKNGHNLKTVDGGMDAVNG EHFYTAGLSQGPKGSFLLFFNI LILVCPPIFRVSGNEVFIRDKLM ERRNRRTGRTEKARIWEVTDRT VRTWIGEA VAPLLLTCDNLKTC HTSHGVSMAETAVINHKKRKF SPRIVQSNDLTEAAAYSLRDQK RMLYLFVDQIRKSDGTQLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKRAHSPSR GLYSVHINPYLIPFFIGLQNRFT QFRLSETKEITNPYAMRLYESL CQYRKPDSGIVSLKIDWIIERY QLPQSYQRMPDFRRFLQVCV NEINSRTPMRLSYIEKKGRQT THICDNLKTCHTSHGVSMAETA VINHKKRKNSPRIVQSNDLTEA AYSLSRDQKRMLYLFVDQIRKS DGTQLQEHDGICEIHVAKYAEIF GLTSAEASKDIRQALKSFAGKE VVFYRPE/VGCRR*KRL*IFSLV YQCAQSIQRALQCTYQPISHSL LYRVTEPVYTISAY

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24600	54968	A	24738	1295	1675	SVTSLCKVTSVCLTSGRRFLQIR ISDGLTQEHGICEIHVAKYAEI FGLTSAEASKDIRQALKSFAGK EVVYRPEEDAGDEKGYESFP WFIKRAHSPSRGLYSVHINPYLI PFFIGLQNRFTQFRLSETKEITNP YAMRLYESLCQYRKPDGSGIVS LKIAWVIERYQLPQSYQRMPDF RRRFLQVSDFLMAPYRNIDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVYRPEEDAG DEKGYESFPWFIKRAHSPSRGL YSVHINPYLIPFFIGLQNRFTQFR LSETKEITNPYAMRLYESLCQY RKPDGSGIVSLKIDWIIERYQLP QSYQRMPDFRRRFLQVCVNEIN SRTPMRLSYIEKKKGRQTTHIE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVYRPE EDAGDERGYESFPWFIKRAHSP SRGLYSVHINPYLIPFFIGLQNR FTQFRLSETKEITNPYAMRLYQS LCQYRKPDGSGIVSLKIDWIIER YQLPQSYQRMPDFRRRFLQIRK SDGLTQEHGICEIHVAKYAEIF GLTSAEASKDIRQALKSFAGKE VVYRPEEDAGDEEGYESFPWF IKRAHSPSRGLYSVHINPYLIPFF IGLQNRFTQFRLSETKEITNPYA MRLYESLCQYRKPDGSCIVSLK IDWIIERYQLPPRYQRMPDFRRR FLRVVWQENSRTPMPPLLPWE
24601	54969	A	24739	1	1986	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
24602	54970	A	24740	1	398	MVDSLIRVGVGMARGNAITLP VCGRDVKFTLQVLRGDSVEKT SRVPPGNERDQEMLTEDALDD LIPSFLLTGQQTAFGRRVSGVI HTADGSRRRKAAALTEKFCIVD NPPGEIRKRACLFIPHTALNLNR FEDICYAHQLPDGGLLSARVGV MARGNPILSPVCGRNVKFTLKV LRGDSVENPSRVWSGNERAQE LLEHALDDLTLFLLTGQQT AFGRRVSGVIEIADGSRRRKAA ALTESDYRVLVGELDDQMAA LSRLGNDYRPTSPYERQGRYAS RLQNEFAGNISALADAENISRKI ITRCINTAKLPKSVVALFSPHGE LSARSGNERDQELLTEDALDDL IPSFLLTGQQTAFGRRVSGVIH TADGSRRRKAA/DTYRKILYR** PPGD*KKSVPFYSNTCAQSQP
24603	54971	A	24741	1450	3699	RNPLQIPKQQQNEKYQVPQFDQ STIKNIESAKGLDVWDSWPLQN ADGTVAEYNGYHVVFALAGSP KDADDTSIYMFQYKVGDNIDS WKNAGRVPKDSDKFDANDPIL KDQTEWWSGSATFTSDGKIRLF YTDYSGKHGKQSLTTAQIFQ MITVFITSLCNTTSSHICLHISWV TTMHGAMPHPGHIPTAPASLPA KVKGSGKVCWLAFLSELTPPS ALQVNVSKSDDTLKINGVEDH KTIFDGDGKTYQNVQHFIDEGN YTCGDNHTLRDPHYVEDKGHK YLVEANTGTENGYYQGEESLFN KAYYGGGTNFFRKESQKLQQS AKKRDAELANGALGIIELNNDY TLKKVMKPLITSNTVTEIERA NVFKMNGKWYLFITDSRGSKM TIDVPOAKSTNVVITSYMTNRG FFEPEGSKGSITAAVMAKGLSV ASGNSTPERRRATANENVQPRA IRDAEKAGRLPHPDMEIRGRVE QRVGYTIEQINHMIRDVFGTRLR RAEDVFPPIGVAAHKGGVYK TSVSVHLAQDLAKGLRVLLV EGNDPQGTASMYHGWVVDLHI HAEDTLLPFYLGKDDVITYAIK PTCWPLDIIPSCALAHRIETEL MRKFDEGNLPTDPHMLMLRLAIE TVAHDYDVIVIDSAPNLGIGTIN VVCAADVLIVPTPAEQLDISISS RQFFDILRDLKKNVDLKGFEFD

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24604	54972	A	24742	1	3899	MVDSLIAPIVGVMMARGNAITLPV RATNVKFTLELRGDSVEKTSR VWSEKKDRGGQAEVSGEGSS QTKSLQKRQHNSGSDFTARGF HTGQALVRSKGTYYNPTGLGL SHGTEDPNLIGEELDAGEWDK NTRKELAVLNVRDFADFGTTI KQDFRLLGQTSVDRLLQLSQG QAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQ VSRLESGQFWVFEGGLRVLVR ERVTPKGTASMYQGWWVPD
24605	54973	A	24743	268	2617	RMFRMKLMETUSQICINAGHE MTKAIAIAQFNDDSPARKITR RWRIGEADLVGVSSQAIRDAE KAGRLPHPDMEISGRVVKHGVG YTIEQIYLTRDVFGTRLPRAD VFPPIGVAAHKGGVYKTSVS HLAQDLALKGLRVLLVEGNPD QGTASMYHGVWVPDLHIHAEDT LLPFYLGEKDDVTYAIKPTCWP GLDIIPSLALHRIETELMGKFD EGKLPTDPHLMRLAIETVAHD YDVIVIDSAPNLGIGTINVVCAA DVLIVPTPAELFDYTSALQFFD MLRDLLKTVDLKGFEPDVRILL TKYSNSNGSQSPWMEEQIRDA WGSVMVLKNVRETDEVGKGQI RMRTVFEQAIDQRSSTDTSLSTP AAPMVDLSLIARVGVMMARGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGNERDQELLTEDAL DDLIPSFLLTGQTPAFGRRVSG VIEIADGSRRRKAAALTESDYR VLVGELDDEQMAALSR LGNDY RPTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSPHGELSARS GDA LQKAFTDKEELLKQQASNLHE QKKAGVIFEAEVITLLTSVLKT SSASRSLSSRHQFAPGATVLY KGDKMALNLD RSRVPAYIIRSY IRCGRKGFASAGVGGCRGWL N YAASEQIVLRVHHMRCEIPHRC

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
24606	54974	A	24744	1	2624	MTPQKRGYLCKAGARNLDVLL EGCEIFLLIPMGMRSESGVSDA DTVSAPRKKHSLEQGIFRAQVE ASKPSSVPACIVVGNVSGYQFP PGTSYGPDSSELGYREKFMSF VGTMEAGNPPFSANYSKAKK PKPRMFSLIERMSPSRVGSQSV QSSCFRDIPEQDQMFPHPSLV RSKEQQPLL.TQSIGVNSARKAM AKRRRHRRRRVSGVLPVIA\VG VPS*SVHLPKVLSCSGASWI*QS CISRLGRLSPTRLMNVA\GNDP QGTASMYHGWVQILHIHAEDT LL/PFY/LGEKDDVTYAIKPTCW PGLDIHPSCLALHRIETELMGKF DEGKLPDTPHMLRLAIETVAH DYDVIVIDSAPNLGIGTINVVCA ADVLIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEPPDVRIIL TKYSNSNGSQSPWMEEQIRDA WASMV*K\NNVRNANEVGKDT LKGFYSLKERPLGNHFLGPNNR PFGKIMKHKTAFGRRVSGVIEI ADGSRRRKAAALTESDYRVLV GELDDEQMAALSR LGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFSHPGELSARSGDALQ KAFTDKEELLKQASNLHEQK KAGGFCFRNHHQTGFSPAGA NQRGPLAATLSGPGGEGQSAV ARLTGEKKNHPGAQYANRLSP
24607	54975	A	24745	1	385	MWQAISRLLSEQLGEGEIELRN ELPGGEVHAAWHLRYAGHDFF VKCDERELLPGFTAEDQLELL SRSKTVTVPKAFILGQQIARLH QWSDHAVLKIIVTTGVL*GAYV GAPSIWKCPERITLPGYHQ
24608	54976	A	24746	1	1209	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
24609	54977	A	24747	1	857	MHACRSELLGEGEIELRNELPG GEVHAAWHLRYAGHDFVKK DERELLPGFTAEADQLELLSRS KTVNRALKVWA\VGADRELTV FLV\MDYLPPRPLDAHSFILGQ QIARLHQWSDQPQFGLDFDNA LSTTPQNPNTWQRRWSTFFAEQR IGWQLELAAEKGIAFGNDAIVE HIQQRLLASHQPPSLLHGDLWS GNCALGPDGPYIFDPACYWGD RECDLAMLPLHTEQPPQIYDGY QSVSPLPADFLERQPVYQLYTL LNRARLFGGQHLVIAQQSLDRL
24610	54978	A	24748	1	2094	
24611	54979	A	24749	1	1209	MVREDLYTYSCNTSREQQQL ENPMESPLCSKEINQGGVFMLA GKASDTLLAGGTMNNLGGEDS DTIVENGSIYRLGTDGLQLYSS GKTQNLVSVNVGGRAEVHAGTL ENAVIQGGTVILLSPITSADENFV VEEDRAPVELTGSVALLDGAS MIIGYGAELOQSTITVQQGAPP VKLRFALYGRPGFTKCGWMLG YKPAHDKTLLRITRGHDFACYQ RTTQLARQGLKVCSSHLIVGLP GEGQAECLQTLERVVETGVDDGI KLHPLHIVKGSIMAKAWEAGR LNGIELEDYTLTAGEMIRHTPPE VIYHRISASARRPTLLAPLWCE NRWTGMVELDRYLNHEHVQVG SALGRPWLPPTENSLMKQIRLL AQYYVDLMMKLGLVRFSMLL A\WSSFLPLWYKWR
24612	54980	A	24750	200	310	
24613	54981	A	24751	1	4398	MCIPVPPIATGDRHFIAVAHIHQ NSRRSPVDSDESSTRSAVAHP ATRDFNVRALYTVTSSVSPTKP PLPATFRQGRYRPAEPCVGSIG VIPQSSCVLANGSTGAQSAFGDI IRAGPPSAGLVPVAQATVIETFL RYQTINERDFWAARNRLKQP YGSRLRFEAYIAIAERAAQSV LRISLADAFNVDPRAEDSIFR LLRMPPGSAVQRPDRRHNRRCQ YRPAMAFPAGSKANKRQYNG GRQFYRKRICWL

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24614	54982	A	24752	939	2169	RPASPPARDGARWSTGLHSSYS AMCRNASTCAEDS Q L S /DPLA R/PSVASGPYRVTSWKLGGQNV YCRVKDYWPATLTVNRGRWN FDTIRSDYYLDDNVAFAEFKAG AFDLRMENDAKINWATRYT/G DRRVREAITLAFDFEWMNKAL FYNAWSRTNSYFQNTTEYAARN SPPPPELAVLLPPIKKVLPSEVFP QIYQPPVSKGDGYDRDNLLKA DKLLNEAGWVLKGQQRVNAT TGQPLSFELLPLASSNSQWVLPF QHSLQRLGINMDIRKVDNSQIT NRMRSRDYDMMPRVWRAMP WPSSDLQISWSSEYINSTYNAP GVQSPVIDSLINQIIAAQGNKEK FLPLGRALDRVLTWNYMLPM WYMAEDRLAWWDKFSQPAVR PIYSLGIDTWYDVNKTAKLPS ASKQGE
24615	54983	A	24753	3	450	
24616	54984	A	24754	2	203	PLPDAARYLRRQCQKPARVHDI FAAMHTAHRSPDRPSLPDDAF SSLRL*FFQPEHYPRQYQHRHL CS*ERYQHQLSRTRFRSG*PTP SVPETSTGSRYFCGNAHSAPKP PRPPIITGRVFFTTPLLPTRAL PASISTPASL
24617	54985	A	24755	1016	1219	
24618	54986	A	24756	1695	2021	PDTFSMLPATRFLPPLQFPDLQH PEAAQYAHWLPASGCFLLFPPP GSGTVFLLPYPSRLCRSTSETP LPAITR*HFPVTD R VQK*ITRRR KPRHKPFYPDDLQ R DAR
24619	54987	A	24757	1671	1911	
24620	54988	A	24758	513	1104	CWRNCARCERNLVFRCQYGIY WCDNAANRSCRTKRDPRLVE W*KSACSHHR*LHPCGHC R QF MNELNSGLDLRIHLPGREAHAL RDYLPDAFGPKDLEIKTLLMDE QDHGYALTGDALSQAIAAAN RSHMPYSKSPSGVALECKDGRV LVAATLKTPI/INPTQICGQPWS MHRRALTSKFGA H GD R RTSAG FRRN
24621	54989	A	24759	131	759	
24622	54990	A	24760	662	889	LPIKCRAARGVPARCLRWTRW ALRRILPPLNR S RA S RWRAS PGARK*WMPSLQAVWAAMP VTRLPAWLRWKC

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24623	54991	A	24761	1	1518	MQRRDGDIALIYRSKIGPRTSIT FTARRANPVQRIAAARILLRDHLI CRMSCTAARHANTFDLIQSGS ADNFAAIYGGANDRITRADA VAGAGNWHRFGISNGKLSPRSI TRTSSPARAMTKMPYNPQASG GSNLAVSNPELDKLIARVAAL RAANPDASASVPVELVTASASY PRSLMRCNRILSPGSARGQMIIIT ALFIYAGNPIACVALEVLKVF EQENLLQKANDLGQKLKDGLL AISFWRAKWLIKIFVVCGEAIFV EYVLKNKVIWLLCFANIFYVYV RIGIDQWSTVYAFQELKLSKAV AIQGFTEAGALVGTLLWGW LSDLANGRRGLVACIALALIIAT LVIPFHMVFHPNEQYAYCVNEL NSSVDVWELKDPHGNECVQT LDMMPENFSDTRWAADIHITPD GRVHLYACDRTASLITVFSVSED GSVLSKEGFQPTETQPRGFNV HSGKYLIAAGQKSHHISVVEIV GEQGLLHEKGRYAVGGQPMW
24624	54992	A	24762	3	486	ACRRALKDIAGVEADEVLEVV MVGGSSTRVPLVRERVGFEFFRP PLTSIDPKVVAIGAIAIQADILV GNKPDSEMLLLDVIPLSLGLET MGGLVEKVIIPRNTTIPVARAQD FTTFKDGQTAMSAGGAHIRVTF QVDADGLLSVTAMEKSTGVEA SIQVKPSYG
24625	54993	B	24763	1	2469	
24626	54994	A	24764	1255	1761	ESFQVTRTHGTGEPVKNKTRTSQA VSHHNQSCQVDQCVPCAVIAG NVFPRHNVQGGH*RNCCQQTNR SSINDFTKLSNTRPISVHSLGIKQ SRPDRHAKASPVVTAVKACEQ VIAAVNQIADDDHQPDRTKQRN AIVVADDLPDLFPVHFFGVDDHQ QHNHRDKKQPGEDLLCC
24627	54995	A	24765	1	3141	
24628	54996	B	24766	1	3969	

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24629	54997	A	24767	643	2082	GAHAMDKHFSTTPAEKNLPVL LALIGIWYNNFFDKNDALVMV DDFPRRSGLSWKIVVVPHEYW VGGSTRVPLVRERVGEFFGRPP LTSIDPKVVAIGAIAIQADILVG NKPDSMLLLDVIPLSLGLETM GGLVEKVIPRNTTIPVARAQDF TTFKDGQTAMSIHVMQGEREL VQDCRSLARFAICVVFRRYRL/A GAHIRVTFQVDADGLLSVTAM EKSTGVEASIQVKPSYGLTDSEI ASMIKDSMSYAEQDVKARMLA EQKPGQGEAKLALKTFHWQQA IADKRVIGAGITGVTAGTDHRA DVTVEASDFRVQTTNADSAF HVRSAQQHIHQLLHFTTHLLCQ LAGLDHVVFQQIATNPADQVQ AVGFTRTGKDLCHFHHGGFTHA EELHKAGVEAGKVTGQAKVEQ MRVQAFYLQQNGADHLRTFW HLNTHRVFHRRGVGGAVGKA ADPAHTVREEGHFVITHTGFRQ FFHAAMDVEQ
24630	54998	A	24768	1	502	

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24631	54999	A	24769	1	2345	MFMIGALVLAIVMTLITFMVL RRVIRPLQHAAQRIEKIASGDL TMNDEPAGRNEIGRLSRHLQQ MQHSLGMTVGTVRQGAEIYR GTSEISAGNADLSSRTTEQAAAI EQTAASMEQLTATVKQNADNA HHASKLAQEASIKASEGGQTVN GVVKTMGAMSTSSKKISEITGR HQQGIRTPVTAVKGRCPGLDE GDTDTAYYALRDIFALTPNRKR LAIPVSTDNPGKCKDPSLSKD VSNRVQRVPCYDSPRSSVNG NRLPGKDFHDDERSMGRSGSY VLALAYPPKIALSDADSVTVNV AGWQGEISREQFNELIAPLVKR TLLACRRALKDAGVEADEVLE VVMVGGSTRVPLVRERVGEFF GRPPLTSIDPKVVAIGAAIQAD ILVGNKPDSEMLLLDVIPLSLGL ETMGGLEVKVIPIRNTTIPVARA QDFTTFKDGQTAMSIHVMQGE RELVDQCRSLARFACVFFRRYR LAGPVDLFLRPWEVDISRRTSL DSPLPVQVLEASPKGHYTQLVV QPLGWYNEPLTVVMHGDDAP QRGERLFVGLQHARLYNGDER ASRDPGFLMAREVTCRPDKTRK LRIRQHHVWIEIVSTLEQTIGNT PLVKLQRMGPDNGSEVWLKLE GNNPAGSVKDRAALSMIVEAE KRGEIKPGDVLIEATSGNTGIAL AMIAALKSYRMKLLMPDNMSQ
24632	55000	A	24770	313	676	DCQPRSSAFTKPDATTAGHYLA GSGGRMTQLAIGKPAISLAHLE REGGENFTFFSLNADGEKL/CVF DANGQ/EHRYDLPGHSGDIWH/ G/YLPDARPALRMVSRH/GP/WQ PAGGMLTPAVVMILPRK
24633	55001	A	24771	1760	2053	FRVHGKNAFSH*IKPAAMLLPS SPVTRS VKPTCCGSAPS KRPNL TLLPSITLMPPLPVTDLKLGCIA PCSSDCFSFITFSISCATRLSVNW LPAAGQ
24634	55002	A	24772	296	732	
24635	55003	A	24773	606	695	
24636	55004	A	24774	1520	1737	PVHGLCGTRRDAGS\PAIYPFHS LML/RFWLR/TCTVPGWPLDDS SLAGEAFSAFTTDAAVWSLISA TAMLAVQAG
24637	55005	A	24775	1	1049	

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24638	55006	A	24776	248	933	RTTMRVSRPKYCSRRERWL/HY DFTVARFDENASCGTFAATS AVLFIHSHCLRLCRVVVLVTRVN FQFTEHSTTQRAFWQHAFNRDF NHTLRTASNHLFGRLFDTTDV AGVVIVHFVSTLVAGYSNFVS QNDDEVITGIYVRSVFRFVLTAQ ATSQSFSSQTAQSFTGRVNNIPV AFYGFWFSCAKYYRHGARWCS NGRKIDQRHHTCCPCIRTDFA VEIGKEEFIT
24639	55007	A	24777	219	3441	DCQPRSSATKPDATTAGHYLA GHSGLDIWHGYLPDARPLGRYG YRVHGPWPQAEHGRFNPAAKLL IDPCARQIDGFEKDNPLHAGH NEPDYRDNAAIAPKCVVVDH YDWEDDAPPRTWPWGSTIIYEAH VKGLTYLHPEIPVEIRGTYKAL GHPVMINYLKQLGITALELLPV AQFASEPRLQRMGLSNYWGYN PVAMFALHPAYACSPETALDEF RDAIKALHKAGIEVLIDIVLNHS AELDLGDLFSLRGI
24640	55008	A	24778	454	586	
24641	55009	B	24779	130	1557	
24642	55010	B	24780	92	2808	
24643	55011	A	24781	2	1051	WRLRPITPLWRWQKIFFPDA/R YGIRFRNLETGNWYPELLDNVE PSFVWANDSWIFYVYRKHPIFI DLTTEELAASSYHESWVLEDRII KDGSYNIDQGVGVRAISGEKGTG FAYADQISLLALEQSAQAARTI VRDSGDGKVQTLGAVEHSPLY TSGRSGWQSMSREEKLDILRRV DKVAREADKRVQEVTAASLGSV YELILVAATDGTAAADVRPLGK VLLVGQSPNAELSAKQIAM GVDGANEVYNEIRQGQPIGLGE ASNDTWITTKYRSQLLTSDLVK SSNVKVTTENGEVFLMGLVTE REAKAAADIASRVSGVKRVNR TLFLGYAVMFSELILAPVTPSNS
24644	55012	B	24782	1	2079	

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24645	55013	A	24783	1	3214	MGA EKQLIPD GCGVSYIPSSGP LDKWRALLFIQPDYRADPVVR QHITITDLRLIYDYTENFVLP DEVVHGKKSILDRMPGDAWQK FANLRAYYGWMWAFPGKLL FMGNEFAQGREWNHDASLDW HLLGGDNWHHGVRQLVRDL NLTYRHHKAMHEDFPYGF WLVVDDKERSVLIFVRRDKEG NEIIVASNFTVPRHDYRFGINQ PGKWRILNTDSMHYHGSNAG NGGTVHSDEIASHGQRHLSL
24646	55014	A	24784	1	1079	MKQIKELQRLGKKTWKMNSS KKPLNMDGPKVDSARALIGRG WGTHKFYRCDIKPTIKNTSS RGNEKNPDGSHNNHNSWFRL LTSQNMCKVPESPAILVDVGQS AETVQSVLTVKVEHPILRIAVA GYACQRQSCLLAMRHPQYAIN SSKVVKPCSTARQPFQKAYAYP PVVRAFPAINVGISGNKLTNDR RYGRTSNKAWGSGDGHITLSEC GWAPLAAGDNVGVSVYQTLG YYQRILGYIFYPIAWVMGVPS EALQVGSIMA/TKLVSNFVAM MDLQK/IASLSPRAEGIISVFL/ VSFANFSSIGIIAAAECRDWFG ILAAQTLAVRAALRVVQAERD CVLSMEQHQCARGRQR
24647	55015	A	24785	121	258	LTEPRHYCRSIOFFGLTNMGQN CYQLS*E*FIGTLNHIRRIQPLS
24648	55016	A	24786	1	470	WGS DGHITLSECGWAPLAAG DNVGVSVYQTLGYQYRILGYIF YPLAWVMGVPSSEALQVGSIM A/TKLVSNFVAMMDLQK/IAS TLSPRAEGIISVFL/VSFANFSSIG IIAAAECRDWFGILAAQTLAV RAALRVVQAERDCVLSMEQHQC CARGRQR
24649	55017	A	24787	1324	1539	GWCGCEVPFKITDGLACLQSP QGHQTFCTF*HNLGLQPFWIPM CLCSNVNFKTRLILTQVEEGCR AVSMTQ
24650	55018	A	24788	71	403	RTTFIDLSSGWPFILWQVLSPN *RCLQVGLFAQIFTRMGCLHR FLTCRMGVCTDSSPAGWAVTLI RMSPIFPASSKSTLSAALLNTSC LHSRDLEPPGAFRSGGPVLL

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24651	55019	A	24789	309	1653	SVLMDESDIYRNNRFFCVFL LVGVPPARGACLGGGGGCGLCV RYLRSAWGCGRRFPCVGDN WSAILAHIGKPEELDTARNAG ALTRRREIRDAATLLRLGLAYG PGGMSLREVTAWAQLHDVATL SDVALLKRLPKCRHWFGLAG QTLAHIRVLPVIRAIGFLLSKV NGMGKLESFNAVSSILGQSEN FIAYKDILGKISRNRMYTMAAT AMSTVSMISVGAYMTMLEPKY VVAALVLNMFSTFIVLSLINPYR VDASEENIQMSNLFEGQSFFEM LGEYILAGFKVAIIVAAMLIGFI ALIAALNALFATVTGWFGYSIS FQILGYIFYPIAWVMGVPSSE ALQVGSIMATKLVSNEFVAMM DLQKIASTLSPCAEGIISVLLDSF ANFSSIGHARAVKGLNEEQONE GSRFGLKLVRSTLVS/VLSASI AALVLS DHT
24652	55020	A	24790	754	957	
24653	55021	B	24791	75	3707	
24654	55022	B	24792	75	264	
24655	55023	B	24793	344	461	
24656	55024	A	24794	1	2203	
24657	55025	A	24795	20	198	
24658	55026	A	24796	1239	1409	RGPPTFFHHVWEWQQRPLSVW EADHV*RRDEGACPRMVARAR NCRPKLLELRAESQ
24659	55027	A	24797	1325	1564	
24660	55028	A	24798	323	694	TGYARQKPPVPALGWWTNVSAS TAPPIILPSITGSRLAVIKWLTVS AGKLSALLCASCQKGGGAKWR MAMANGITNKLAIQCSPPHSTI EKFTSQSQHVLA*GVSAVRSM VSSG*GRRRLPALG
24661	55029	A	24799	4708	4878	
24662	55030	A	24800	20	199	
24663	55031	A	24801	743	1186	

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24664	55032	A	24802	1394	2651	KLMTCRHEGSLGDDPGINGQL WDVNRIDVTAHEGTWERWTV RADEPQAFHIEGVFMFQIRNVNG AMPFPEDRGWKDTVWVDGQV ELLVYFGQPSWAHFFVFYFNSQT LFSWPQYWAACFGPAPFLPMS REEMDQLGWDSCDILVTGDA YVDHPSFGMAICGRMLEAQGF RVGHIAQPDWSSKDDFMRLGKP NLFFGVTAGNMDSMINRYTAD RRLRHDDAYTPDNVAGKRPDR ATLVYTQRCKEAWKDVVPVILG GIEASLRRTAHYDYSWSDTVRRS VLVDSKADMLMFGNGERPLVE VAHRLAMGEPISEIRDVRNTAII VKEALPGWSGVDSRDLTPGKI DPIHPYGEDLPCADNKPVAPK KQEA KAVTVQPPRPKPWEKTY VLLPSFEKVKGDKVLYAHASRI LHHETNPVAPAH

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24665	55033	A	24803	1	2126	MQEKQVLAAVYVQPSSEGGQSR RRARRVSQCHQHSAAASLAR TAASATADSAHPPCPSRAARAG ATMHVKKYLLKGLHRLQKGGP YTYKELLVWYCDNTNTHGPKR IICEGPKKKAMWFLTLFLAAL VCWQWGFIRTYLSWEVSLSLS VGFKTMDFFPAVTICNASPFKYS KIKHLLKDLDELMEAVLERILA PELSHANATRNLSFSIVNPTPL VLIDERNPHHPMVLDFGDNH NGLTSSSASEKICNAHGCKMA MRLCSLNRQTCTFRNFTSATQA LTEWYILQATNIFAQVPQQELV EMSYPGEQMILACLFGEPCNY RNFTSIFYPHYGNCYIFNWGMT EKALPSANPGTEFGLKLIDIGQ EDYVPFLASTAGVRLMLHEQR SYPFIRDEGIYPMSTGTSIGVL VDKLQRMGEPYSPCTVNGSEV PVQNFYSYDNTTYSIQAQLRSC FQDHIMIRNCNGHYLYPLPRG EKYCNRRDFPDWAHCYSDLQ MSVAQRETICGMCKESCNDTQ YKMTISMADWPSEASEDWIFH VLSQERDQSTNITLSRKGIVKLN IFFQEFNYRTIEESAANNIVWLL SNLGGQFGFWMGGSVLCLEIFG EIIIDFVWITIILVALAKSLRQR RAQASYAGPPPTVAELVEAHT NFGFQPDATAPRSPNIGPYGEG ALPNPG/TPAPPNYDSWRLQPL
24666	55034	A	24804	905	1051	
24667	55035	A	24805	1	1257	
24668	55036	A	24806	1	3116	MPITLPDGSQRSFDPVPSVAEV AQSIGAGLAKATLAGKVDGRLI ITPKDEEGLEIRIISCAHLVGHA VKQLYPTAKMVIGPVIEEGFYY DIFFERFPTPEDMAAIQQRMR LIDKDYDVIKKMTPEAEVIELF KLQAAPDRRHAGREGHGLYFH EEYVDMCRGPHVPNTRFLKAF QLTKISGAYWRGDSKNEQLQRI YGTAWADKKQLAAYIQRIIEA EKRDHRRIGKQLDLFHLQEAPE GMVFWHPNGWSVYQ
24669	55037	A	24807	1924	2790	
24670	55038	A	24808	1	1185	

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24671	55039	A	24809	823	5990	MARPVPLWSSWGLRTSYL PKP LSVNP SRNDGSA/FAGTHPLGV TRGTLAGPAFVRLSLVFLRRV LAGSSLLPLL MG*QK/PEVLLPD GASEHDYSLRPSDVKRLQNA LVVWVGPEMEAFMQETGKQIT RSEVSPLCRRVAFNKFNRDPQP RYDWGR LTVLYSGSSLSGGRY VVIIECHCQLSKPLRL EQNEIR SLLPEASEPIDQAAQEDEAIPQD ELDDKIAGEAGVHEYVVSTGD TLSSILNQY GIDMGD
24672	55040	A	24810	2305	2550	
24673	55041	A	24811	665	844	ISFNNEVISYRLSGKNQ*LN LG* EIWLESGAFKKALSPQKHPGLE PSVCTPTPTLV PDR
24674	55042	A	24812	1	2031	
24675	55043	A	24813	106	912	HFETVIDQRDFHPVFSHKGIRAT PEGNEEK GQRVADVTEQCGRC RCQPPAATLTQAVKNVHVEDL PQRVGHETGGGDTGDKQVEVG ECAESHTLDALGLRCPPEVMM VRKTVRNMQPGETLLIADDP TTRDIPGFCTFMEHELVAKETD GLPYRYLIRKGG**GLIGFDAAF SPHPNPLPRGARGPIALNV AIGL PYLLRN LNAFAVTSTVAPVSA STASHNPVIQRGDEEDPFQPOR NSDVLADIGVSGACQFNHLHQ AAQVVMG

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24676	55044	A	24814	1	1495	MQKLTLTYAETRRLYGKEVYH RPSRFIGELPEECVEEVRLRATV SRPVSHQRMGTPMVENDSGYK LGQVRVHAKFEGGTIVNMEGS GIAALCHCRVLIATAALMDPDD AVELSVTTMMFALCNTRNPRV AWDTAPCVPATTAASMAKRAP DMSQSAPEAGSQKPPRLSCGE SLHPLPATKRAYNYCRPVGRIR HLCRIRQSMPTATLSRLIRPTTV ADPPDKALAPHAVFTRGDSKF LSHKPARSPAIRYLLASVWGPV GMMAMMLAMTGFVVATRKL RRFGFKSCKNGVLYRISSSSITT SPASPIATCRPVLPCWMRMDPM LDMMGQMQLMEKYGDQAMA GMDHSQMMGHMFLGHKVIRA NHVGDWGTQFGMLFRIAVETF KEDWEAVWDQLDDLNLGKIV A*GRDPAAFHIDNGAFTKLSVA YALAEVAAVVLDHRRTHPLM ADRAAYRGAQHLFHTLFRQL ADKARRAMVNLFTIQTAGFRV GQRQLH
24677	55045	A	24815	3	707	GCTLGPVKSFSRLVAVLSWPQ YFYIIERACSPCCGLAPGEAPH VNLFHSTHSENKKQPHNSPYHN DIQPTLNYLPTNQKKQTQQEQS HNITKQGSQQLHDVTQVPYQAY RSAIVVGLIRRDVSA SGIDCRM RRERLIRPTGRASDNTEFTGTQ NMQNITHSWFVQVMIKATTTDA WLKGWA*AQRQRPDTPG*RR YRTISRQFPATSVLYPAQPAHA FTGKYTVYCHRLGQILP
24678	55046	A	24816	2	1340	
24679	55047	A	24817	1	2457	

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24680	55048	A	24818	41	1053	QRNQQAHLSP/QHSRDIYDNQV HLVRNCNLEMPDQEFIVLYGPS DCGKSTTLRMIAGLEEISGGDL LIDGKRMNDVPAKARNIAMVF QNYALYPHMTVYDNMAFGLK MQKIAKEVIDERVNWAQILG LREYLKRKPGALSGGQRQ RVA LGRAIVREAGVFLMDEPLSNLD AKLRVQMRAEISKLHQKLNTT MIYVTHDQTEAMTRIVIM KDGIVQQVGAPKTVYNQPANM FVSGFIGSPAMNFIRGTIDGDKF VTETLKLTIPEEKLA VLKTQEV CPDHTLDALGLRCPVP/HDGA QNRAQYAAWRNVADYRRRSG HYPRYSWVLYLYGTRTGC
24681	55049	A	24819	3	131	
24682	55050	A	24820	247	492	
24683	55051	A	24821	2	241	YFFQKSSKTVIGGRRLCSVFRY QFSIVLATC*GTFPPSR*STILS* VTQSA TSSGREGRSSSRSLNGRF MFSIASMMMSW
24684	55052	A	24822	1	1143	

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24685	55053	A	24823	242	2151	FSRQHVVKMKHCCKNVVILMP EPVAEPALNGLRLNLRIVSIVMF NFASYLTIGLPLAVLPGYVHDV MGFSAFWAGLVISLQYFATLLS RPHAGRYADSLGPKKIVVFLC GCFLSGLGYLTAGLTAACLSSA VILCRGVQLHPVSDLRIPRGEK AGRNRSVDGCCEKAMSVIIVG GGMAGATLALAISSLHGLPV HLIEATAPESHAHPGFDGRAIAL AAGTCQQLARIGVWQSLADCA TAITIVHVELHNVGQRLFAL LRKAPGVTLHCPDRVANVART QSHVEVTLESGETLGRVLVAA DGTHSALATACGVDWQQEPYE QLAVIANVATSAHEGRAFERF TQHGPLAMLPMSDGRCSLVWC HPLERREEVLSWDEKFCRELQ SAFGWRLGKITHAGKRSAYPL ALTHAARSITHRTVLIQSERLNH KALEKRTLTVWDNSFLIYRQSD VSEIRLASLFASFIRKSKQQA KHTNRRSKDKEKRTQKRTT SRQRRRRQRMVRVGDQIAGC HCLYSTGSPNRQLREAGIELSDF VRGNEKARERMKAQYSIAGMT SGVVVGTDAHAAEITGFFTKYG DGGTDINPLYRLNKRQKQLL AALACPEHLYKKAPTADLEDD
24686	55054	A	24824	2	91	
24687	55055	B	24825	1	2346	
24688	55056	A	24826	1	1713	
24689	55057	A	24827	1	918	
24690	55058	A	24828	415	816	
24691	55059	A	24829	72	296	FCSATFGRPSDQYQNGE*LRWR GLGSFACQSPAHEPNQWKFVL ARRGFARGTAEAHPSQYRHW KIHRLNPGLR
24692	55060	A	24830	1	620	

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24693	55061	A	24831	1625	2460	GVVNPRQGRVLSMLPAMLLYL LFLLIQTSLKSNKGKGLDPTL WMWTVNLIYLALAIVLNLWDT VPVRRRLASFRRKGARIPFVGC RETCELQIQLVKMMLGRELDT HALQRAGRITLLSDKPVAAFKN YGKKGITAPFDLEVRPGEIVGL AGLLGSGRTETA EVIFGIKPADS GTALIKGKPQNLRSPHQASVLG IGFCPEDRKTDGIIAAASVRENII LALQAQRGVCYVFPFAKNSKRL PNALSASLAFALQLNLRNLS PAAISKKCCFYVGY
24694	55062	A	24832	1	2034	
24695	55063	A	24833	3839	3970	
24696	55064	B	24834	694	765	
24697	55065	A	24835	1778	1982	
24698	55066	A	24836	1	268	MTCRLLTRLPGQAGVGKRVSG VPDELSPFLSVSGSRYLQGGVGL VSPTSGANVGLPVISTNLLVKE CRDGGKWKMTKGCCLNMFHFK
24699	55067	A	24837	568	713	
24700	55068	A	24838	217	1910	AFTFQESVMAFSQAVSGLNAA ATNLDVIGNNIANSATYGFKSG TASFADMFAGSKVGLGVKVVAG ITQDFDTGTTTNTGRGLDVAIS QNGFFRLVDSNGSVFYSRNGQF KLDENRNLVNMQGLQLTGYP TGTPTTIQQGANPTNISIPNTLM AAKTTTTASMQLNLSDDLPT VTPFSASNADSYNKKGSVTVD SQGNAHDMSVYFVKTGDNW QVYTQDSSDPNIAKATTLLEF NANGTLVDGAM/ANNIATGAIN /GLSFLNSMQQNTGANNIVATT QNGYKPGDLVSYQINDDGTVV GNYSEQTQLLGQIVLANFAN NEGLASEGDNV\WSATQSSGVA LLGTAGTGNFGLTN/GSIESGI AFLVNVPLNPKLKRNVVAGAR WHPYGPWPAFAERACLIEPEGD RRTTHIRPNQRTYSRKTKQRQG GHKTRQDNWEQKGDGGRPEP TDPHQHDANRPTVATKKRRKS TQSQRNHRNPKGTHPTTEHGT AGTTKPPDTPQTDNWT HKGSL REGKANRKNPLRGA EVAGGG KQRAKAERQTQRGERREDVDE GEEDRSKKTEK
24701	55069	A	24839	500	653	

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24702	55070	A	24840	445	849	GSPGTAGTEVAVVLKIGGVHD KVIGHYRCSTNTGRVLDVAI/S QNGFFRLVDSNGSVFY/SRNGQ FKLDENRNPAITGTPPT/IQOGAN PTNISIPNTLMQRKPTAQIVLA NFANHEGLASEATTSLGRRLNL AWRCM
24703	55071	A	24841	1	453	MKQMDTRGKVINCAFAVSAAF ALGDHLGFAAANNMAMIFPMI VGKLIGGVTAIGVAMMLVPRY EFIKREISWQSPVFTPTVDKQGG LKEAELKTLILEQYHAAGIEPES VDSGAIITGESAKTRNAR*TGR FKRSGTENL/KLEQYHAAGIEPE SVDSGAIITGESAKTRNARPTV MALSQLGDFVVASAGPHLE
24704	55072	A	24842	370	670	YSSNIMLRVLSRKALILVPSSSP VKARKPAMLARRGWRSLSRW AILSLPGPR*TGRFKRSGTENL KLEQYHAAGIEPESVDSGAIIT GESAKTRNARNPAGMALSQLG DFVVARAGPHLESVNAGYRTRI RNHGHSWFPGEIGIRSQFHTLR TGSINGKAWGA
24705	55073	A	24843	1	1623	
24706	55074	B	24844	1	4986	
24707	55075	B	24845	65	726	
24708	55076	A	24846	4107	4460	FMSTCGYGGGLSRFPARCLSYQ PLRSWRETVAASG*RRITGSARA NCFCSGLTRDFSIRWPEK*SA QTFVVGTVRCGGMGR*IAAVL SRYSTVESGVSSSTHHRLPLQPD PSGRRL
24709	55077	A	24847	624	895	PLVPAYKQSQRQKPHDYLNRC RKSL*QNSTTLHAKNSQ*IRY* WD/SISE**ELSMNTNPQIPISY*MG KNWKHSL*KLAQDRDALSHRS YST
24710	55078	A	24848	1434	1594	
24711	55079	A	24849	1294	1488	PAGKQTQQRQQFANDGRGEI WRKLKPNPRRQKS*CTSDPRQ KSTLISQREAVIRRFSEAGNFH
24712	55080	A	24850	595	879	RRCTTNIKKIQDQKGNRKA VHRSRFVHGRPITLLFFQLSGRI QSHRLPGRAALFAGIPAACDQS PSLRQPISSEWSDGR*HRRIFRS* SEEF

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24713	55081	A	24851	1009	1478	YSLSVSVWAGATVMESPVWM PIASKFSIEQTMMLSLFSLRSTSI SYSFQPIDSSISNSLVGERSRPR AQISSNSSRL*AIPPLPPMVKD GRIMHGKPTSAATASASSIVCAI PERAVSRPIFFIATSKRRRSSALS IASAVAPIMVTPNSSNT
24714	55082	A	24852	48	209	GLFQVGVAENCRDNNHSFLH SVVIGSSSERVVAK*PDADHF SASFVPVILK
24715	55083	A	24853	1358	3194	PTASFAATLAIGKPVAFDASAE ERDTRGFISITIRRPFGFTANVT RLETERGGICSRSPVWEVVSKE AWAEAPDPGVTLGLKTQHAT /VSEVTSRFRSHYRQFDLDQ AFSAKIFDRYLNLLDYSHKRKT ELGDEAAFSAKLDVFDLYNL AQKRRFRERYQYALSVLEKPM FTGNDTYNDRSKAPWPWNEA ELNALWDNVESLAMTAFAREI DPHTNYLSPRNTEQFNTEMSLS LEGIGAVLQMDDDYTVINSMV AGGPAAKSKAISVGDKIVGVG QTGKPMVDVIGWRLDDVVALI KGPKGSKVRLEILPAGKGTCTR TVTLTRERIRLEDRAVKMSVKT VGKEKVGVLDPGFYVGLTDD VKVQLQKLEKQNVSSVIDLRS NGGGALTEAVSLSGLFIPAGPIV QVRDNNKGVRSDTDGQVIFY KGPLVVLVDRFSASASEIFARD VVVGLICLSSLDVWLCGLFCR CSVDAERTKRQGGKGEESRKR RRKGVELSYLLFGWSAVVLLF VSDAEQHRASRHGGNACQQHP DVRHDEADGYPRQSHQLRLRR FRCFRPGRPLRLRRCOHERHDL PDDCRQVDRRRNGDWRGDDA
24716	55084	A	24854	100	671	YFCFWTYPLLPVCMCDRKGK HGAPAGDLYVQVQFNSHPIFE REGNTLYCEVPINFAMALGGE IEVPTLDGRVKLKVPGETQTGK LFRMRGKGKSVRGGAQGDLL CRVVVETPVGLNERQKQLLQE LQESFGGPTGEHNSPRSKSFFD GVKKFFDDLTR
24717	55085	A	24855	852	1335	
24718	55086	A	24856	326	471	PLQTHPAQQRGHPYQHGGTV S*SCRRRGWSSSRPVIHADAQ LMP

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24719	55087	A	24857	1095	1283	SCRRRGWSSISRPVIHHADAQL MP*PQIVYQHLPFGIYRQDR L*IPD*RPVLTIQDVRGP
24720	55088	A	24858	1	1159	
24721	55089	A	24859	1744	3019	KISPRRPOET/CFQKSTNIAREKT LEQEFVQLFEKIGRRMCLTRE GKKLLPHIYELTRVMDTLREAA KKESDPDGLRVVSGETLSYR MPQVLRFRQRAKPVRLSLQSL NCYVIRDALLNDEADVGVFYR VGNDDALNRRLEGEQSLVLVA SPQIADVDFTTEPGRHNACSFII EPQCVFRQIFESTLRQRRITVEN TIELISIESIKRCVAANIGVSYLP RFAVAKELECGELIELPFGEQSQ TITAMCAHHAGKAVSPAMHTFI HALYSCMRMRRLIRATRSCQF NILHEPRRADKRSASGSLRLQE FNYQDKPCMEIRITYEKTPIR MDKGLTNFGSRWILPELAHKE KDEETQQRKSKRDSRREETDT KKKTRDKATKREKDKEIEMA SISITSRCEDKLENFSSMKYYTEI
24722	55090	A	24860	321	575	SYRRYVFPAQ*NRHLQFAVKPP APVIVHPTLVDSEHHSLHDKR RQHRPHHSVAHHGSRNSSATA TINALLGRVAQNAATRGT
24723	55091	A	24861	935	1637	PQPPPLRREGAGLEKELGRR VRVKGSGCQWPICGKVPVFI ITEQESFQEL/RRITTAESLGK EYEILMIDGSSDNSAHMLVEA SQAENSHIVSILLNRNYGQHS MAGFSHVTGDLITLADLQNP PEEIPRLVAKADEGYDVVGTVR QNRQDSWFRKTASKMINRLIQR TTGKAMGDYGCMLRAYRRHI VDAMLHCHERSTFIPILANIFAR RAIEIPVHHAHS
24724	55092	A	24862	1020	1229	

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24725	55093	A	24863	98	1242	MDKFRVQGPTKLQGEVTSIGA KNAALPNLF AALLAEEPVEIQN VPKLLKDVDTSMKLLSQLGAKV ERNGSVHIDARDVNVFCAPYD LVKTMRASIWALGPLVARFGQ GQVSLPGGCTIGAHVMDKVSV GATVTIMCAAILTEGATIEVFY FLPLAIGKFNELYPNIKVRJLIEQ GTNNCMESVLCNVEDSFGINM NNVTNSSIDFTPLVQRRPFVL ACRRDHPLAKKQLVEWQELVG YKMIGVRSSSGNRLLIEQQLAD KPWKLDWFYEVRIHLSTSLGLV EAGLGISALPGLAMPAPHYSSII GIPLVEPVIRRTLGIIRKDAVL PAAERFFTLSDFCPGVPSEDNI FESPASQHQHEYIGSRQCFLMPSE TTGTMHV
24726	55094	A	24864	1	833	MAELGRKSSVAVSWGKVKTT AQMVALAWLLWRPPIWVEYA GIALFFVAAVLTLSWMLQYLT RVQICLISDRFGVIFSKRSKVVK NIVDSSRQELYEEFYARYNVEL RAPEGFFYLPRSTTLIPRSVLS ELDMVMVGKILCYLYLSPERLA NEGIFTQQELYDELLTDADEAK LLKLVNRRSTGSDVDRQKLOE KVRSSLNRLRLGMVWFMGH DSSKFRITESVFRFGADVVRAGD DPREARRLIRDGD/AMPIENHL QLNDETEENQPDSGEEE
24727	55095	A	24865	819	1428	SPRGISRGGRCPISGDGRIFA GILHGLDNELPLQEEVEGNLE QEGLFPPIRQSDALDLCSFSDILV SPNMYIDDGMKRDWPVMKQC ALQRRWRILPDHYGTPEAEKRP GFAPHYCFSYALLVHMQQC DLEVGDVFWTGGDTHLYSNH MDQTHLQLSREPRPLKLIIRKK PESIFDYRFEDFEIEGYDPHPGIK
24728	55096	A	24866	2	1445	
24729	55097	A	24867	1	1785	

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24730	55098	A	24868	3	654	VRFKGRSSWHMV/SQWDYV ADRFGTADLLPFTISDMDFATA PCIEALNQRLMHGVFGYSRWK NDEFLAAIAHWFTQHYTAIDS QTVVYGPSVYVMSELIRQWSE TGEVVIHTPAYDAFYKAIEGN QRTVMPPVALEKQADGWFCDM GKLEAVLAKPECKIMLLCSPQN PTGKVVTCDLEIMADLCERH GVRVISDEIHMDMVWGEQPHIS LE
24731	55099	A	24869	955	1278	TLTPDFL*QGHFFRAGIAYQIV KQTTVGTTVEITLRRYVVDGNR IPPRQDRQGDFAFFGATHQQW HQVFKRQDIQVTANTATTVT QQAGFTIETRPLRPHQQQ
24732	55100	A	24870	1	1707	
24733	55101	A	24871	1	3615	
24734	55102	A	24872	1	1931	MLLLREHTDTRHDHPRTTRAT RRRRHTEKKRRKKRPATHVL MTATLIPVSRLA TDQPQLFHE SASKPAPHLVSSLGCHCGDASC SGRAVADAMQFKTVFPVFAA AMNPEHMAESGHRITRPEFPDY REL FRES DIKSAVVD SICQCNTP FNYLFRCFELQCLSRHGHSAYG VMQRRHSPMQETRIASPLQRY RWHEDSVNRNWFVSMVGPVSVR VNEWFSAYAMAGMAYSRVST FSGDYLRQLVSGFHEA
24735	55103	A	24873	1281	2234	ISTNSILRIFSGFRKLMEV/TLR DTPILTFMKNLDR/DIRDPMELL DEVENELK/IGCAPITWPIGCGK LFK/GVYHLYKDETYLIQEVRI KGLNNP/DLDAVGEDLAQQL RDE/LELVKGASNEFDKELF/LA GEITPVFFGTALGNF/GVDHML DGVFMAGDRSHVEEAY/PGDIL GQGEEMMKFTGIPNF/APELFRR IRLKDPLKQK/QLKGLVQLSEE GAVQV/FRPISNNDLIVGAVGV LQFDVVVARLKSEYNVEAVYE SVNVATARWVECADAKKFEFF KRKNESQLALDGGDNLAYIATS MVNRLRAQERYPGRQFHQTRE

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24736	55104	A	24874	2	760	AKFEKFLAVPAEALVYTMKG DQKYFPVYANDGKLLPNFIFVA NIESKDPQOI/DRIQALAGWIAE QIGADVNHATRAGLLSKCDLM TNMVFEFTDTQGVGMGMHYAR HDGEADVAVALNEQYQPRFA GDDLPSNPVACALAIADKMDT LAGIFGIGQHPKGDKDPFALRR AALGVLRHIVEKNLNLDLQTLT EEAVRLYGDKLTNANVVDDVI DFMLGRFRAWYQDEGYTVDTI QAVLARRRTPADFDDWHA
24737	55105	A	24875	2	391	
24738	55106	A	24876	2	1785	WLLYRAHVKG/STEALLPNM VATSLAKLPIPKLMRWGATYV HFVRPVHTVTLLLGDKVIPATIL GIQSDRVIRGHRFMGEPEFTIDN ADQYPEILRDSGKVIADYEERK AKIKADAEAAARKIGGNADLSE TLLEEVASLVEWPVVL/TAKF/E EKF/LAISRTALVPYSADNMYQ LVNDVQSYQPFLPGCTGSRILES TPGQMTAAVDVSKAGISKTFTT RNQLTSNQSILMNLVDGPFKKL IGGWKFTPLSQEACRIEFHLDPE FTNKLIELAFGRVFKELAAANMV QAFTVRAKEVYSASMRYIYVIV YISYRPPNLLDSHIIGFSSITHC AVTSHHYNSCDMTMTIHSYVT PYISVRVSLTQTYAPSPSRNLRI TDLTIYRAISSEKSIDDTRIHTI ESRCRVCGAHSRDAERLDRF AQTADEIRIADRGFSSRPECIRS LAFGEADYIVRVHWRGLRWLT AEGMRFDMMGFLRGDLCALIS KTRLISENRRKGRVVQAETLE AAGHVLLLTSLPEDEYSAEQVA DCYRLRWQIELAFKRLKSLHL DALRAKEPELAKVGIFANLLAA FLIDDIQPSLDFPPRSGSEKKN
24739	55107	A	24877	1	2022	
24740	55108	A	24878	2344	2523	
24741	55109	A	24879	82	732	

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24742	55110	A	24880	828	2184	SGCILPPESLRLWASVARRPRT NQPRQPGPKIGGISPAGSALALA CGKRTVLFASLCTRTGGSQLGE \PALVLLADQMLALDDQYTFLQ RIPRSPYGLAFGVPVPHLHYLHQ MRLLDIAPIAFRAMSLAFFVNY LDAVRTGSICSNQNSNDNSAM GISMNVSTLMRVRAIWVYAAAY MERVLNLLNNALRYCHSTVE TSLLLSGNRATLIVEDDGP ENREHIFEPFVRLDPSRDRSTGG CGLGLAIVHSIARGNWATSDHR SLTGTQPYARIVVFLVRLIFAFR VTQTLTQISFVRFVVVQNAFP CPLGIGIDVHFYAYAVYGVDF LSSRTGTTVFDDLNTPDFDRC FAFMQAVGKGYTDAYLPIVER RKAMAYGERERNFQYRRGRY VEFNLPSELAATVYQSDPNFAT GCFRLYTSCNTFNMHKAATML VRAEFSQGYQHCV
24743	55111	A	24881	679	1628	PDADAKRVDITLCLAFGCDAQF IEITFTRLPEVRIHHLQSPASALS SCNHLLIRJTQFNADITIGHHL VNRRVVTVLRDMRHHGDIVHP GVRRGVEHYAAMDGPVKEIM EVRLFLAVFVGNHHSRRDSL VQFVVHTNGDITYTFPGNNIRRD IGFKWRIAALMLHHFLIIDPHFA VMSDRIETQHDTLACPNFRYKD FALIPERCRII/SEYLDRTDRLK WCYAAFQGGDQSQASNPMYA KAPV*VRVWHGYKALSEKGLH VYQRLYQIFQHA EYQTGTNDA EISTKLCLFSSSLSSSLQHSI PPNACL
24744	55112	A	24882	1	1515	
24745	55113	A	24883	1954	2859	
24746	55114	A	24884	121	393	SLARWIICNTSEELAANIKRLGD VTVRLNAFAHGVYGEAQSM GERHAGRR*AVG*CVKGARGE PVDISGAQLRGCGVNALSGLR FGTDL

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24747	55115	A	24885	1	3706	MDLGANGWQTFRYVVLNLS ALLAGGMLAFALSFDEIIVTFT AEQVDAAVRAADAAFAEWGQ TTPKVRAECLLKADVIEENGQ VFAELESSNNTAFARASSNGDL PTKADLQAQLDSLKNKQDLA QDKLVQQDLTDLATLDKIDRI KEETVQLRQKVAAEPEKMRQA TAALTALSDVDNDEETRKILST LSLRQLETRVAQALDDLQNAQ NDLASYNSQLVSLQTQPERVQ NAMYNASQQQLQIRSLDG
24748	55116	A	24886	2842	5034	NVRLSPAMRCRWRRGSPMPAM FEVGVKTRIIQSRREVILMADHS KFDAVEPHAVATLSICKTIISDS GLPETIAQRYQRAGSSLEAQP DREIEKRGPAIAQAFDAEGKPS KASEGWARGCGITVDQAERLT TDKGEWLLYRAHVKGESTEAL LPNMVATSLAKLPIPKLMRWG ASDVHFVWPVHTVTLLLGDK VIPATILGIQSDRVIRGHRFMGE PEFTIDNADQYPEILRERGK VIA DYEERKAKIKADAEAAARKIGG NADLSESLLEEVASLVVEWPVVL TAKFEEKFLAVPAEALVYTMK GDQKYFPVYANDGKLLPNFIFV ANIESKDPQQIISGNEKVVRPRL ADAEFFFNTRKKRLEDNLPR QTVLFQQQGLTDRDKTDRIQAL AGWIAEQSGTDAGDQTGYSDE RWVPDAHSEAPSPVSDMLSAL LLLTLVLAGMVRMAARLLMA KPPQAVNRGDIGWLTSPMVIL LVMMLAMGTHIPQVIRIPGGR FHYSPPHGRGRTDLPAQRSTWHD FCLQAPHLFRNTVNVNSSNR GEAILAALKTQFPGAVLDEERQ TPEQVTTIVKINLLPDVVQYLY YQHDGWLPVLFNDERTLNHG YAVVYALSMGEAEKCVWVK ALVDADSREFPSVTPRPAAV WGEREIRDMYGLIPVGLPDQRR LVLPDDWPEDMHPLRKDAMD
24749	55117	A	24887	49	531	
24750	55118	A	24888	1619	1968	
24751	55119	A	24889	1	553	
24752	55120	A	24890	744	970	LAVISEASNQKRGDPVDHAD*1 AVANMLLNQFQQSYTPMLHDL IVRYDGDIIHQKSFQVQLPGKL RIVKLIQPVE

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24753	55121	A	24891	52	455	
24754	55122	A	24892	2988	3614	PVSVLTQKRLSPATSHRSTCRVI LNQAYVTPSKCWPDEIEISFNF FHSEDEVVRHPVVARIVNAYEA WEEAEQKTMTPANQHAGGLV QCDKMLLQRRSREVIELSEQNA AQMRHVRGADAMAMIFQEPMT SLNPVFTVGEQIAESIRLHQNAS REEAMVEAKRMLDQVRPEAQ TILSRYPHQLSGGMQRQVMIA MALSCRPAVLIADEPTTALDVT IQAQILQLIKVLQKEMSGVIFI THDMGVVAEIAIDRVLMYQG EAVETGTVEQIFHAPQHPYTRA LLAAVPQLGAMKGLDYPRRFP LISLEHPAKQAPPIEQKTVDGE PVLVRVNLVTRPLRSGLLNVR TREVHAEKVSFSLWPGETLSL VGESGSGKSTTGRRLLRLVESQ GGEIIFNGQRIDTLSPGKLQALR RDIQIFQDPYASLDPRQTIGDSI IEPLRVHGLLPKGDAARVAW LLERVGLLPEHAWRYPHEFSGG QRQRICARALALNPKVIIADEA VSALDVSIRGQIINLLDLQRDF GIA YLFISHDMAVVERISHRVA VMYLGQIVEIGPRRAVFENPOH PYTRKLLAEDPVAEPSRQRQPR VLLSDDLPSNIHLRGEAAVVALI KPGAQIGR/PQSWT
24755	55123	A	24893	134	595	IRTGRENESYKGDISR YKFSAR ALRNEVRGGRGCHKTRRVSVG KKVIGLKFHRHLPVVPVTPESIVIP PAPVANDTLVAEVSADAPQAND PTFNEDLA*FAVLSTPTAILISC PGRWGPAAGSECGVRGAHAHR ELALRAFSCCCFSSNAISIPN
24756	55124	A	24894	708	1444	TDAPGDEEASLQRAAQAGVGK IIVPATEAENFARVLALAEYQ PLYAALGLHPGMLEKHSVDVSL EQLQALERRPAKVAVVAVGEIGL DLFGDDPQFERQQWLLDEQLIL VVKRYELPVILHSRRTHDKLAM HLKRHDLPRTGVVYGFSGSLQ QAERFVQLGYKIGVGGTITYPR ASKTRDVIKPLASLLLETDA PDMPPLNGFQGPNNRPEQAARV FAVLCELRREPADEIAQAVLNN TYTLVNVP
24757	55125	A	24895	1460	1777	

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24758	55126	A	24896	381	482	IPGPQSPQSSPDGLWLC*NP*RLLWKAPRSDK
24759	55127	A	24897	977	1144	
24760	55128	A	24898	2	280	CTFALRDEYPRMLNVDNKGRLR DHIELQPLAV/DASYPGGDFRK NAVYVPMW*SAHCEPEGRFAE TGSRRYGEDFASTAPGFRRAAT RKRVRKR
24761	55129	B	24899	1	1665	
24762	55130	A	24900	296	495	
24763	55131	A	24901	1	5352	
24764	55132	A	24902	187	280	AVDTGLADIIRDIEPNMVARLP LSFTASLSIS
24765	55133	A	24903	1775	1981	HIWQNSLIVLFRGCRSAHAKVH RWKN*LPLNLAPLLPRSGSSAPI RPPPSAQAQRQPMKSTYGVDRR HS
24766	55134	A	24904	760	1473	
24767	55135	A	24905	1	2124	MNRMSGGYWQLFAESGETCR ARELEQCLEDYDQRKESVRW HLDLHTAIRGSLHPQFGLPQR DIPWDEKFLTWLGAAGLEALV FHQEPGGTFTHFSARHFGALAC TLELGKALPFGQNDLRQFAVTA SAIAALLSGESVGIVRTPLRYR VVSQITRHSPSFEMHMASDTLN FMPFEKGTLLAQDGEERTVTTH DVEVAKNAITEIKTQFEKEKLA QDRIKRNQI.DANIQLNYSI.DI ANAAIGIKPPVYSN.DGIERKLEI EKAIVTDVAELNGELRNRYLV EQLTKAHVNDVNFTPFKYQLSP SLPVKKDGGPKAIIVLSALIG MLYCRVCIKRNADSPEVFSGFS DPNVVLLAAVFIIGDGLVRTGV ATVMGTWLKVGAGNSEIKML VLLMLTVAGLGAFFMSSTGVVA IFIPVVLVAMRMQTSRSLMM PLSFAGLISGMMTLVATPPNLV VNSELLREGYHGFSSFSVTPIGL VVLVLGILYMLVMRFMLKGD QTPQREGWTRRTFRDLIREYRL TGRARRLAIRPGSPMIGQLDD LKLRLERYGANVIGVERWRRFR RVIVNVGVSEFRADVSLIAM SAADVLRQFCSERLLEPDGIA RFSLLPESELJGESVREIGLRTRY GLNVVGLTRTGVALDGLADE PLLLGDISWLWALES DRYAAM LGRSRLTYRRGDEHCRASRSP

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24768	55136	A	24906	834	993	EEIEVARLRDQKSAEGGIQNRE YWPGRSGHR*SPHAPIIGTQFLQ ALFQTWDQFVFALSACGRRHP TDGRRQNPAVSGHVSVAARQPA HSQTDEASG
24769	55137	A	24907	3519	5161	
24770	55138	A	24908	374	1891	KWKLKRPDSNIDHRRVPNLET WFSRHDKTRPTSKNPSDYQAG DIVSWRLDNGLAHIGVVSDGFA RDGTPLVIHNIGAGAQEEDVLF NWRMRQCQHNQHTATFNGP RILAEQPPGKEYAANGNGQLYP MSSLNKQGSDAHFPDYPLASP SNNEIDLLNLISVLWRAKKTVM AVVFAFACAGLLISFILPQKWTS AAVVTPEPVQWQELEKSFTKL RVLDLDIKIDRTEAFNLFIKKFQ SVSLLLEYLRSSPYVMDQLEKA KIDELDLHRAIALSEKMKAVD DNASKKKDEPSLYTSWTLSFTA PTSEEAQTVLSGYIDYISTLVVK ESLENVRNKLKLTQFEKEKLA QDRIKTKNQLDANIQRINYSLD IANAAGIKKPVYSNGQAVKDD PDFSISLGADGIERKLEIEKAVT DVAELNGELRNRRQYLVPEPITK AHVNDVNFTPFKYQLSPSLPVK KDGPGKAIIVILSALIGGMVAC GGVLLRYAMASRKQDAMMAD
24771	55139	A	24909	1111	1895	PLVNFNSSSHVPVSNPSIQLSSITL PLVENESRARA/VKQMDAIDH QTGVRLPVFYSIVLPEIRAILQS EGFCQDIVQALVAPLQQEMKL DPTPIAHRTHGLNPNLNKYDA RIAAIDYTLAHDGIGSLRNLDQ AQVILLGVSRGCKTPTSLYLAM QFGIRAAANYPFIADDDMDNLVLP ASLKPLQHKLFGLTIDPERLAAI REERRENSRYASLRQCRMEVA EVEALYRKNPWINSTNYSVE EIAITKILDIMGLSRRMV
24772	55140	A	24910	77	434	EKKRGREDKPGTMATTFPPATSA PQQPPGPEDESSLDESPLYSL AHSYLGPLIMPMTSPLPALV TGGGGRKGRTKREAAANTNRP SPGGHR/ERKLVTKLQNSERKK RGARRLRQSWR
24773	55141	A	24911	31	295	

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24774	55142	A	24912	75	426	EKKRGREDKPGTMAFFPPATSA PQIQPPGPGGRDSQPWMDLL /YSLAHSYLG/GGGRKGHTKRE TAANTQPPQPLAGHERKTVDP KLQ\NSERKKRGARALRQELEM RRRPWLTTPSQ
24775	55143	A	24913	1	1107	
24776	55144	A	24914	1	1468	
24777	55145	A	24915	1	2463	
24778	55146	A	24916	1	603	
24779	55147	A	24917	118	1087	IRSKMTTQTVSGRRYFTKAW LMEQKSLIALLVIAIVSTLSPN FFTINNLFNILQQTSVNAIMAVG MTLVILTSGIDLS/VAASIVGIEV NALVAVAAALALGAAIGAVTG VIVAKGRVQAFIATLVNMLLL RGVTMVYTNQSPVNTGTFENA DLFGWFGIGRPLGVTPVWIMG IVFLAAWYMLHHTRLGRYIYA LGGNEAATRFSGINVNKIIVY SLCGQLASLAGIHKVARLSSAQ HTAGTGYELDAIAAVVLADDR QSGGDFAGGAGRQKAVITTT GHLEYEHEKTGYPGFRCCAAR HRQCECDGKRHHRAGGLHA
24780	55148	A	24918	1	1286	MHEREPGLRAALAGQLEFRVG LGLGVWTLRLMELLRQRLV VYTASDGQYEMVSRLNWVN YLVLEDVHIILPDQMRGITGCV ATHPHERRLHAGTVHRQINIVN NPPDCVPRDAGEAEVAPDPSLA SLQLQTPPELPLISCHNSIQVSN EARLFELLICQWRDFRKRIVAA KSMQGRELEGGQGGQDKATNP FRVLALKSGSDPDPHGAGRQG SDLLHPVSDAQVLQHFFQRRRA LLSSPDYHDVVGLCAQEPG YIMELFIHKHCQLAQTAGSLAP EQKKELEMTVRYIYSSADLTAE KFATAIRN/HWHVENKLHWRL DV*RQFDKHCSTADSTRILASF VRHVNAALDVRVVFASGSETT HGDGARRYLRCDVDWRRRT AVAQADKSARACHFYAGYH HHEHFADPVSVGAKYHTVFST

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24781	55149	A	24919	417	861	AKGPCDRNHSSDDKDVIADG KTLRHSYDKSRRRGAIHVISAF STMHSLVIGQIKTDEKSNEITAI PELLNMLDIKGIITTDAMGCQ KDIAEKIQKQGVIFSLCPASIID KKVTDLAVAVQGTLTGSGGI LPPGGALKKISEKL
24782	55150	A	24920	3	1767	HISHPDYR*AWKVEHKLSGILL LTIFAVISGAESWKDIEDFGKTH LDFWKQYQDFENGIPVHDTIAR VVSCISPAKFHECFINWMRDCH SSNDKDVIADGKTLRHSYDKS RRRGAIHVISAFSTMHSLVIGQI KTDKKSNEITAIPELLNMLDIKG KIITTDAMGCQKDIAEKIQKQGV GDYLFVVKQRNGAVENRAKTQ TRIAFGDHFRRQVSRQLRFCH RLATQFAARLRMFATGQPMN GLRLLFIIVNKQAALLVNKLDA QMAAFQQLPGRGRQATVRRRE MDLCAFAERMGLPVSRPGDIQE FHAGCRTKFDAGAFRDKHHVA CFGDHGLAFVANMQLPFQHHV DFVVVQGPREECVLP.LHKTGG HAAAVVSGHKISQAHAMRLCA VETTKLDATGINHFDAAAFAGHR FESSVDCACSATVSFIFPSVCD RFGNWLRSGRCSHAARKNEITL TNTRSLRPKRNTERHDMQTR ATVIAAGEKLLPYAETLMSTW QAARKEVAHTSRHNEFSIGASA SLWDMVMTSAGAVVTTVVVA VRPSSFYILCSHKKKRTLHTR EKTVDRRKEYETRKRSETDT

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24783	55151	A	24921	110	1282	SNTPIIKENKMKLKLGMHISI IPDYRQAWKMEHKLSILLTI CAVISGAEGWEDIQDFGETHLD FLKQYGFENGIPVHDTIARVV SCISPAKFHECFINWMRDCHSS DDKDVIADGKTLRHSYDKST/ RRRGAIHVNNAFSTMHSLVIG QIKTDKKSNEITAIPLENNMLDI KGKIITDAMGCQKDIAEKIQK QGGDYLFVAVKGNQGRNLKAFE EKFPLKLENNPEHDSYAMSEKS HGREGIRLHVCDVPDELIDFTF EWKGLKKLCVAVSFRSHAEQK KEPEMTVRYYYISSADLTAEKFA TAIRNHWHVENKLHWRLDVV MNEDDDCKIRRGNAELFSGIRH IAMNLTNDKVKAGLRRKMRK AAMDRLYLASVLASGLS
24784	55152	B	24922	258	507	
24785	55153	A	24923	1	3060	MTEIEENMLLPISGQELPIRWLA QHIGSEKPVTHVSRDGLQALHIA RAEELPAVTAALAVSHKTSLLDP LEIRELHKLVRDTRDKVFPNPGN SNLGLITAFPEAYLNADYTDGR LLTKWEMKGNRVSHITRTASG ANACGGNLTDGRGDSFVHDLTS MARYVATGVLARSMGLVIYSFI QHTLTLEEYREITAFLEFETHA AAARYTGEQETLPLSPQWILRQ CKEVALCDGDTFSGEQLNLM LQOREWREGFLAER
24786	55154	B	24924	56	967	
24787	55155	B	24925	1	1776	
24788	55156	A	24926	1	864	
24789	55157	A	24927	424	513	
24790	55158	A	24928	1	5049	
24791	55159	B	24929	1	939	
24792	55160	A	24930	1	1837	

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24793	55161	A	24931	1	2249	MLPDIARFLPRLANDQIEFTW YVNHFTYSNAIKIFCYQMFLAS TQARASGAPLQRLFRAIGGNA WERPFRMVFCSAAFSEESSPFR ETNYEPQLFLGFATDYRFAGW TLRDVEMGYNHDSNGRSDPTS RSWNRLYTRLMAENGWNLVE VKPWYVVGNTDDNPDIKYM GYYQLKIGYHLGDAVLSAKGQ YNNWNTGYGGAELGLSPITKH VRLYTQVYSGYGESLIDYNFNQ TRVGVGAGVNVAAQAEVLNLE SGAKQVLQETFGYQQFRPGQE EIIDTVLSGRDCLVMPPTGGGK SLCYQIPALLNGLTVVVSPLNS LKEKSANPFEFTFAFAHAHFW VIQAIMINTPADGSTHKQART SWLPYSSLPVLSVSTQDEKAKK KMRFMQRSKDSLAKWLSAILP VVIVGLVGLFAVTVIRDYGRAS EADRQALLEKGNVLRALLES RVGMGMRMHVQQQALLEEM AGQPGVLWFAVTDAAQGIIILHS DPDKVGRALYSPDEMQLKPE ENSRWRLLGKTETTPALEVYRL FQPM SAPWRHGMHNMPCNG KAVPQVDAQQAIFIAVDASDLV ATQSGEKRNTLILYALATVLL ASVLSFFWYRRYLRSRQLQDE MKRKEKLVALGHLLAA/GVAHE IRNPLSSIKGLAKYFAERAPAGG EAHQLAQHVVQIRRFHAHPAS

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24794	55162	A	24932	261	2115	TLVFCWHAKLLSHGVFMDIISV ALKRHSTKAFDASKKL TPEQAE QIKTL LQYSPSTNSQPWHFIVA STEEGKARVAKSAAGNYVFNE RKMLDASHVVVFCAKTAMDD VWLKLVVDQEDADGRFATPEA KAANDKGRKFADMRKDLH DDAEWMAKQVYLVN VGNFLLG VAALGLDAVPIEGFDAAILDAE FGLKEKGYTSLVVVPVEDLAGI EIDHTTSMVMIFGIIFLTAVVVH IILHWVVLRTFEKRAIASRLWL QITQNKLFHRLAFTLQGHVNIQ AVFWLQKGTEAADILTTCACL WIMMYALLSVFSLDVLILGQV KFPAAVQLPLKGVIFQGIKMGF ILVGLMISLLIGQSPAILISGLGA MAAVLMLVFKDPILGLVAGIQ LSANDMLKLGDWLEMPKYGA DGAVIDIGLPTVKVRNWDNTIT TIPTWSLVSDSKNWSGMSASG GRRKRSISIDVTSIRFLDEDEM QRLNKAHLKPYLTSRHOEINE WNRQGSRESVRNLRMPNIG VTFCAYLNKYLGTHPRKRDM TLMVVRQLAPGDNGLPFEIYAF NTVVWLEYESIQAIDFHIFAIV EEFGLRLHQSPGTGDIRSLAGA FKQ
24795	55163	A	24933	1	757	
24796	55164	A	24934	8	343	
24797	55165	A	24935	1423	1761	
24798	55166	A	24936	1	851	MKGDTKVINYLNKLLGNELVA INQYFLHARMFKNWGLKRLND VEYHESIDEMKHADRYIERILFL EGLPNLQDLGKLNIGEDVEEML RSDLALELDGAKNLEAIGYAD SVHDYVSRDMMIEILRDEEGHI DWLETELDLIQKMLQNYLQA QIREEGKSIYQEQTTAMKRPDY RTLQALDAVIRERGFEARGTK AVHYTISRLETAH*ATGKYVRAA AVGAYRTAAPDGTAKTAGTA APGGVAGRRVAGR*TNRFDSA AAFTGGQRRQSGDVAASCTGS CVG

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24799	55167	A	24937	1645	2009	PVFIQFVEGMCGTANEPACLLV NQSPAIFYPGKJAAIWQNPRIHV ESGSM*TLIDSD*VSPTECLSPR HHYMPFEEAARGYEIEFEKREEE CRKVILVPGAQSAEAAQKAVS GLVNAMPGGTI
24800	55168	A	24938	1	3936	
24801	55169	A	24939	1	2240	MRSPTMTRNSRNGKHDYKPPPR KRRQPPHDHTAPNSTPARNQRG RPHRPNRQAGQREQRANNPTP NTPSPPTNDPAEPHQTRHDSR QPHNTPPAYAEVLAAALLTTDT NVTRRRRLRYMQPDTKLCHSAG KSIYQEQTAMKRDPYRTLQAL DAVIRERGFERAAQKLCITQSA VSQRIKQLENMFGQPLLVEDET RTQERLRRGEVVGAVSIQHQA PSCLVDKLGALDYLFVSSKPPFA EKYFPNGVTRSALLKAPVVAFD HLDMDHQAFLQQNFDLPGPSV PCHIVNSSEAFVQLARQGTTC MIPHQLIEKELASGELIDLTPGL FQRRMLYWHRFAPESRMMRK VTDALLDYGHKADDIILRITAT AICGSDLHLYRGKIPQVKHGD FGHEFMGEVVEVGKDVKNLQK GDRVVIPIFVIACGDCFCRLQQ YAAACENTNAGKGAALNKKQIP APAALFGYSHLYGGVPGQAE YVRVPKGNVPGFKVPLLSDD KALFLSDILPTAWQAANKAQIQ QGSSVAVYGAGPVGLLTACAR LLGAEQIFVVDHHPYRLHFAAD RYGAIPINFEDSDPAQSIIEQTA GHRGVDAVIDAVGFEAKGSTT ETVLTNLKEGSSGKALRQCIA AVKRCGIVSVPGVYAGFIHGFL FGDAFDKGLSFKMGQTHVHA WLCELLPLIEKGLLKPEEIVTHY
24802	55170	A	24940	687	792	TPTLTRLRHPVAYRATLK*NR PAKVSQLCCTNA
24803	55171	A	24941	3	510	AGDMVWLCVTRTQISY*IPRTHP AVGIPRERPLRGADTPQRGASH RIRGEGRK*KRWALLCCPGCN I*RHFCFHN*ERYFWIYVVEST GAVKHLQNTGHWLNAGALPV RRPRKSVTGSIRAQVSVPIASR ALLACPCGQCAGYATQFVMSK ITQRFNVACRTRMYAVG
24804	55172	A	24942	189	563	

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24805	55173	A	24943	1224	1772	GPSVSLATSSCSIKVQNPGISR VVAGSSAIISNVSPGCILRTVLR TIITGSGQRRPSASSVWSGHTSC VVRTANFSSGMVNLVS SVTNLS PSIVPRIKFIAGDPINPETNIFAG WL/VNGFRRTYLLNNPVFHNH NPRRHGHRFGLIVGHVDHGGV QFLMQLADLCAHLHAQLGIKV
24806	55174	A	24944	1541	3675	LEIIKRKISMRRNWMHSITRY WRFLDFPTLRGGRWMR*SGEK LNPISTPLRANCLALAQTRTL APMSFTWGMPTSQPDCAVPGR RALPELLCLQRSSQSRFAGTAI T
24807	55175	B	24945	1	1497	
24808	55176	A	24946	650	739	
24809	55177	A	24947	4447	4804	RQNDRYSGRERHEITPLCW*IPR IAWALWLRSLRRGPQEKSLHN RVARTISWPYQARHPCKRTLLGG HGFFLHIVLSQLPCLSYPLSSFA GLLARSSMFLKLAARFLCCRRS YAASPLSI
24810	55178	A	24948	1	3774	
24811	55179	A	24949	431	949	NYAIYHQNHGVNISPLGKTHN YRQHQHCITYYWRDLMPANK NYKQRWITPGSASFYRSSHKAL IRLLATRLPAFPWGRRSAWRWP VRY*IRVPSSGSYHLEISMRAWI FPQPKALTPSNLHWKTA*LWS* KTLSFVCWIATVLPARFWKLT D PWLAILPCANIYWQASAPD
24812	55180	A	24950	337	648	

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24813	55181	A	24951	1	1430	MFTYPHSKFRVNRFGVQVLLIE FSILLDGGRTGLGHSLSVWCISG DCSSFLQKPTSLPLRKPSAIIIS DSLSGSADLLRNHNFCVCTAADI FTTDITPEAGDARLIGIAQTVRH LEDPMPRAWKSIHKSCILDPPIHR APVKENTHPARKINISDPAAGA VARIRYEGVLSVCRASASAYVS RSRTITVACWYVSNTGVTGATI GVKRQHRHARLFSGDGAPGFG TGKRDIRQLRRLVKIQRTFFA AVLHVPTPWSRAIDAAALLTVI DVKVLTACACQACRTLALRVA QVIDRCSNPGDIMSSVARRYWF ISRWSAKRDCAVSYDQDPGQA QRSRCSCLVAVDRGLWLSAYC RSLMTQTLLPDDVPRILPNASSP SRLRCLHIWVITACWICANSSG FIARNLGLCGWEKRLVKDLTRI QDTGRAKEILGATATLEFRIR*T PTLTRPLRHPVAYRATLK*NRP AKVSQLCCTNA
24814	55182	B	24952	1	1295	
24815	55183	A	24953	3151	3207	LQWLID*WCL**TFDLRFA
24816	55184	A	24954	2740	3917	NGRSVWAVKLELFRVKPLDIPQ QRVGQQHVLLKAFNRRLAMQF IQLIATDVTEILPLHVVEDGTD LYCLALSHLRCGRSLRWRREL PRGLGVNVSWCYPFKAQQQCA AEITDKAGQREIFGFARVKENA GYVIECYQPDGDKLIRELPF SSLIFARQWVFGELLQHLPE DRITPIVGMQLQGVVEKGGELRV EVADTNESKELLKFCRKFTVPL RAALRDAGVLANYETPKRPVV HVFHFIAPGCCYTGYSYNNNSP FYMGIPLRKFPADAPSRSTLKLE EAFHVFIPEWDERLANGMW AVDLGACPGGWTFQLVKRNM WVYSVDHGSVMQ/SLWTTGT CWGTRFHSARGQKFEVLQGS QTLPAATDPPGMQWLASGVLE
24817	55185	A	24955	1	519	
24818	55186	A	24956	510	731	

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24819	55187	A	24957	1	1055	MRLCPEKTTKAKRVKAVLAWS KEEPWLSWSEFEVLEMGYKKL GDFSTAGAILTEIRPSPASAFTL DSQPPENNLSEAKYAPNNIESI AKYFAPKSPMFSESPSGTALDS FNRNERRRWPWPKNKSGFGSD LTLKIGISSPDIALERLYEQAR KLKSGKFRALSELDESARSGVLK VLCAFAAYQDYSRSAASTRKCD CCDGGGFTEAQVFTNKVSYPW GKPPYWSKMSRAVRPSDWESW TQAREVVRVKCKPCNGKGVIS NSCRCHGKGVKVLAKHESDRRG VPVMKACDRCGGRGYARLKFS SVMMRALILLRRLKKTAAEYQL QPLFEELVAECHKQESMADSIL SKVTR
24820	55188	A	24958	361	725	
24821	55189	A	24959	1100	1738	WQRSTLPLLFESAMQTGVNAG NPVAW*KSAGYGHKLYDAKN RLVLVQSTALWASQLVQYLSTF FRKNLKRPFVTLADEIEHVN AYLQIEKARFQSRLQVNIAIPQE LSQQQLPAFTLQPIVENAIKHGT SQLLDTRVVAISARREGQHLML EIEDNAGLYQPVTNASGLGMN LVDKRLRERFGDDYGISVACEP DSYTRITLRLPWRDEA
24822	55190	A	24960	1	2043	
24823	55191	A	24961	2164	2487	KLKRIARHNFHGIRDHLHFQQV NRFSSGFPTTYWLMADHVHH LKTYSTCRIEGGHRLKDRHRS CAAPLTKLFFPRVKNIQSQQGN LPPMYAITARR*QTHNQHCGD

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24824	55192	A	24962	128	2574	QVVVVMAMVAKVVIDIVVVV GVEMIRVKVVAIVVEVVVEV VVVMVAWWWW*/*DMG EARWWVEYGVWEVEHILNA PQQYLLAGIGDTLAKWYEA LAPQPETPLPLTVRLGINNAQ AIRDVLNLSSEQALSDQNNQ LTQSFCDVVDALAGGGMVGG LGDRTFTRVAAAHAVHNGLT VLPQTEKFLHGTKVAYGILV QSALLGQDDVLAQLTGAYQ RFHLPPTLAELEVDINNQA EIDKVIHAHLRPV ESIHVLPVTLTPDTLRAAFK KYSQSCFVIRLGGDFIIHQLA ENIIVIFVNNHNGTRCQTFQ WAI SNCHTVSLQKFSVRKFL SDLFAIGGRRGVVRPPTEA PGHQSNDNAHVSVSFDGLDL VFFV VNWAGVVFCDLFSR KRGRFSVWRNKGFGRYCQRL ANFRDRQAFQLLNQIH FTRCKQVDNNGTEFKATHFL AFQQCHRTVVFPGRPAIKTR VERLDYRNRNMEKSNQGANL RVHGGTWEKLVQLDSAGMV NRVSSVGAPLREPIPTGKGAK EDTWGNLSSNDPLLEAFGGQ FGIAISMHQTLATRGGKRNA RPTTRPRFHRGTNPRGIAPH IGTANARYSTGHCVPVALPFG LRGPPLARENVATATKGHESA SRETVVAVAKLTSRVLLICD ATHALPIQVLRNDRVIAAG NGCTDDQLQLEHLPANTDIR
24825	55193	A	24963	117	335	PGLAPATRRSTPGRFNADAG AD*RRAGTGAGRAKRRGVGI HRLCLADPFLADCRNAGLRGA ALCGTAAASGK

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24826	55194	A	24964	208	1903	YLAIKTFRCLHDFFTDEQLSRA VWYIGKRAIAAAQTKLPAPFGL PGAKHILFRGHCSDESVDQLAA ESGDDRSVIGVGGGALLDTA KALARRLLGLPFVAVPTIAATCA AWTPLSVWYNDAGQALHYEIF DDANFMVLVDPEIILNAPQQYL LAGIGDTLAKWYEA VVLA PQP ETLPLTVRLGINNAQAIRDVL NSSEQALSDQQNQQLTQSFCDV GDAAIAGGGMVWGLGDRFTRV EAAHAGPNGLTGLPQTEKFLH GTKVAYGILVQSALLGQDDVL AQLTGAYQRFLPTTLAELEVD INNQAIEDKVIAHTLRPVESIH LPVTLTPDTLRAAFKKLIQGLIS AEQLAQALAEQNGVAWESIDA WQIPSSLIAEMPASVALHYAVL PLRLNDELIVGSEDIDPVSLA ALTRKVGKRVYVIVLRGQIVT GLRHIWYARRRGHDPRAMLYN AVQHQLWTEQQAQGEIWRQYVP HQFLFAEILTTLGHINRSAINVL LLRHERSSLPLGKFLVTEGVISQ ETLDRVLTIQRELQVSMQSLLL KAGLNTQVQAQLESENEGE
24827	55195	B	24965	31	205	
24828	55196	B	24966	69	402	
24829	55197	B	24967	1	721	
24830	55198	A	24968	1	1703	
24831	55199	A	24969	2853	2889	LIIGLDLPAVSAIFQALRFTHV GIADGGAYVVQR/HRPDEPRRR CCSE
24832	55200	A	24970	297	473	
24833	55201	A	24971	1179	2148	CQVLRPRTKRLNVFLHRMQH QWRQREL VHNMC FVIACAKRK RAPFVQAAEEVVRPGQHDEFP LAIWQTGGSTQSNMNMNEVLA NRASELLGGVRGMRKVHPND DVNKSQSSNDVFPTAMHVAAL LALRKQLIPQLKTLTQTLNEKS RAFADIVKIGRTHLQDATPLTL GQEISGWPA SRSGTGSWRYS GG YWTKYPSGVCASRSKMNWYST RASDGGHASDAVRTAQAADRE LRAPVRDELNASITSKTRLAEST SLAEWVKASPHDDDKPILLPGE WEVNTRRERQKQGIPLDAGSW QAICDAARQIGMPEETLQAFCC Q

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=-possible nucleotide deletion, ▽=possible nucleotide insertion)
24834	55202	A	24972	166	365	NPFSNSPWETYPVAFITPLALFM GIYLRYL RPRGRIGEVSVIGLV/SP DFRHYLWRLGGKSDLGTVL
24835	55203	A	24973	83	362	KPPCFLQASVTCWLRLPFASMI LPPCACS*ST*ESIRPAVVGPREP EGITFRFRGRTRVVNRMFIDVL RHLFTVIHPLFQFGVTYITDDN
24836	55204	A	24974	584	853	
24837	55205	A	24975	1	3017	MSQDPFQERAEKYANPIPSRE FILEHLTKREKPARDELADEL HIEGEEQLEGYAPVLAPESGILI MRPTLTMPALTGFVDGTGPVW TGNLFPFLFITIACGAVSGFHAI SSGTTPKMLANEGQACFIFYGG MLMESFVAIMALVSACHDPGV YFAMNSPMAVLAPAGTADV ASAAQVYVSSWGSITPDTLNQI ASEVGEQSIISRAGGAPTLAVG MAYILHGALGGMMDVAFWYH FAILFEALFILTAVD
24838	55206	A	24976	3	206	EPDFLPL**RRNHEQNYRDGKC TGSYRSLRTGR*SGQYDHLRL DPGKSENGRSTGRRCTGTSVA G
24839	55207	A	24977	3	982	GDAEPFVFLPRIRKCDHEYSLDH YQHRFYLRNHRHGKNFGLYRT RMRDEQQWELIPPRENIMLEG FTLFTDWLVVEERQGLTSLRQ INRKTREVIAGAFDDPAYVTWIA YNPEPETARLRYGYSSMTTPDT LFELDMDTGERRVLKQTEVPGF YAANYRSEHLWIVARDGVEVP VSLVYHRKHFRKGHNPLLVYG YGSYGASIDADFSSRLSLDR GFVYAIHVVRGGGCKINLVVD NGKIVRAEAQGKTNQGTCLCL KGYYGWDFINDTQILTPRLKTP MIRRRQGGKLEPVSWDEALNY VAERLSAIKEYGPDAIQTGSS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, v=possible nucleotide insertion)
24840	55208	A	24978	1339	3640	SPLSTAGISICGPLLIITDVLDT TVAGIKGMIATGEGTTEWNSV MVAMLLTLIPPVVIVLVMQRAF VRGLVDMRNKMAGLKLQAVT KSWDGKTQVIKPLTLDVADGE FIVMVGPSGCGKSTLLRMVAG LERVTEGDIWINEQVSELRLIG YMSRKMGGGKNRRREPHIDVKK GIFGLSITPEFSEPLAEDFLSRRQ YGIRFRNLETGNWYPELLDNVE PSFVWANDSWIFYVVRKHPTV LLPYQVWRHAIGTPASQDKLIY EEKDDTYVYVSLHKTTSKHYVVI HLASATTSEVRLDAEMADAE PFVFLPRRKDHEYSLDHYQHFR YLRNHRHGKNFGLYRTRMRDE QQWEELIPPENIMLEGFTLFTD WLVVVERQRGLTSLRQINRKT EVIGIAFD DPAYVTWIAYNPEPE TARLRVGYSSMTTPTDLFDLDI DTGERRVFKPPEV/PGFYAA/SY RREPRW/IVSADGVKYSFV/APR QHFRDAPVLSFLLFSDRAPFR NNGPRVLLLYYHPELLGVT YSQLSVHEARPKPLPIPHSRHRH VPTRNEMAEQEKRPAGSQSLFR GLMLIELSNYPNGCPLAHLSEL AGLNKSTVHRLQLGQSCGYV TTAPAAGSYRLTTKFAVQKA LSSLNIIHIAAPHLEALNIATGET INFSSREDDHAILIYKLEPTTGM LRTAYIGQHMPLYCSAMGKI
24841	55209	A	24979	1	248	
24842	55210	A	24980	839	1625	PDAFILTTKPAGAIPTSTSTRIP FCPSFAPCENATPAAET/HQRNT RPEWRFTFAFFLFAIFRNAVNT VTMSIRKIGGVHNAANLVPW MTKFFQRFQIAFQSRGAVFHQH HHAGYAGQGRKTALEQRLVF GFGINKQMRVPLIGEVYQFSG *CQRQSFTADGFTDSNAFNIS GNSTARDKLFIAGYGNRYFHC GVNAQIIFMQELGDFRHFVIF/A QKGNEYHGDTRISPGFRFRGHH PLGALRLAASVERSGNGHRA
24843	55211	A	24981	2538	2864	GSSLINSKVMPSF*QQNRKFAY KRAGVATDEFHAESFVRGRAP MKRKL*LFMQLGGDVIOFPDGF IAGNTVYRCQQLAVGDAVGKI LHNRYAFRQSTVIQQQCRHLP
24844	55212	A	24982	1	1281	